

**MASSACHUSETTS CONTINGENCY PLAN
IMMEDIATE RESPONSE ACTION STATUS REPORT,
IMMEDIATE RESPONSE ACTION PLAN MODIFICATION
AND REMEDIAL MONITORING REPORT
and
LANDFILL MONITORING REPORT**

3RD QUARTER 2013

**TOWN OF EASTHAM LANDFILL
255 OLD ORCHARD ROAD
EASTHAM, MASSACHUSETTS**

DEP RTN 4-24301

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Prepared for:

Town of Eastham
2500 State Highway
Eastham, MA 02642-2544

Prepared by:

Environmental Strategies & Management, Inc.
273 West Main St
Norton, MA 02766

ES&M Project No. 2013-027

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1.0 INTRODUCTION

This Immediate Response Action (IRA) Status Report, IRA Plan Modification, and Remedial Monitoring Report have been prepared in accordance with the Massachusetts Contingency Plan (MCP) by Environmental Strategies & Management, Inc. (ES&M) on behalf of the Town of Eastham. This report also includes a summary of activities completed under the Town of Eastham's Landfill Monitoring Plan, approved by the Massachusetts Department of Environmental Protection (MassDEP) on August 14, 2012.

1.1 Background

The Town's landfill accepted municipal wastes from the 1930's until 1992, and was closed in 1997. The closure consisted of the construction of a low permeability cap and the implementation of a groundwater monitoring program. This monitoring program included routine collection and laboratory analysis of groundwater samples from monitoring wells around the landfill and private drinking water wells in the neighborhood of the landfill. The landfill and surrounding properties are shown on the Site Map included as Figure 1.

In March 2004, vinyl chloride was detected in a water sample collected from a private drinking water well at a concentration of 2 micrograms per liter ($\mu\text{g/L}$). Vinyl chloride is a volatile organic compound or "VOC" that is commonly found in groundwater where chlorinated solvents have been released. At this site, VOCs are likely related to debris buried at the landfill. Since the drinking water standard for vinyl chloride is 2 $\mu\text{g/L}$, this discovery was reported to MassDEP as required by the MCP. Response actions related to this discovery included collection and analysis of water samples over a five year period. Laboratory results showed diminishing concentrations of vinyl chloride over time. The diminishing concentrations were attributed to the capping of the landfill, which limits the infiltration of rainwater, and hence, the leaching of contaminants to groundwater. A comprehensive report was submitted in 2009 (to supplement other, previous reports) to document that a permanent solution had been achieved under the MCP. The term "permanent solution" as defined by the MCP means that a condition of no significant risk of harm to humans and the environment has been achieved.

On August 14, 2012, MassDEP's Division of Solid Waste issued a letter to the Town to outline revised monitoring and reporting requirements for the landfill and surrounding neighborhood. The requirements of this revised Landfill Monitoring Plan (LMP) includes collection of groundwater samples from monitoring wells and private wells, collection of soil gas samples from the perimeter of the landfill and quarterly reporting. The testing requirements for water samples include VOCs, certain metals, and "indicator" parameters such as pH, alkalinity, nitrates, and other compounds that are typically related to landfill leachate. The testing protocol was established to monitor groundwater quality in drinking water wells closest to the landfill, at a frequency determined by MassDEP. Included in MassDEP's August 14th letter was a requirement

to analyze groundwater samples for 1,4 dioxane. This compound is considered an “emerging” contaminant, meaning that its occurrence in the environment and its potential toxicity have only recently been considered by the regulatory and scientific community. It is for this reason that groundwater within and around the landfill had not previously been tested for 1,4 dioxane.

Following the detection of 1,4 dioxane in monitoring wells and private drinking water wells near and downgradient of the landfill, the Town initiated an extensive private well testing program. Between February and August 2013, water samples from over 300 private drinking water wells have been collected under this program. During this time period, MassDEP published draft regulations (which are still draft at this time) proposing to lower the MCP “GW-1” drinking water standard for 1,4 dioxane from 3 µg/L to 0.3 µg/L. The drinking water standard is being lowered in response to several studies, primarily conducted on animals, that suggest that 1,4 dioxane is likely to be carcinogenic to humans. The proposed new standard corresponds to a target excess lifetime cancer risk of one in a million, using the most current toxicity information.

When the drinking water standard was 3 µg/L, laboratories established reporting limits just below that level, typically about 2.5 µg/L. This reporting limit (RL) sometimes referred to as the method reporting limit (MRL) is the level above which the laboratory can reliably and accurately report a result. The laboratory instruments can detect below that level, but those results are reported as estimated (such data is usually qualified with a “J” value on laboratory reports). The lowered standard has necessitated the use of more sophisticated laboratory techniques to accurately detect 1,4 dioxane to a method reporting limit of about 0.2 µg/L. Stated another way, this reporting limit equates to 1 pound of 1,4 dioxane in 600,000,000 gallons of water. It should be noted that 1,4 dioxane is the only contaminant that has been detected above the GW-1 drinking water standards in samples collected during this program.

During the course of the private well sampling program, bottled water was offered to any resident where 1,4 dioxane was detected above one half of the current drinking water standard (1.5 µg/L). As will be discussed in Section 2, below, the action level for bottled water has been lowered to be consistent with the proposed drinking water standard of 0.3 µg/L, and bottled water is now being offered to residences where 1,4 dioxane has been detected at 0.3 µg/L or greater. In addition to providing bottled water, a pilot testing program will be conducted this fall (Section 4.3) to evaluate alternatives to treat water at affected residences.

1.2 Purpose of IRA

The objective of the Immediate Response Action program is to identify private water wells in the vicinity of the landfill that have been impacted by 1,4 dioxane, and to provide alternative safe drinking water to affected residents. In addition, the IRA program includes implementation of appropriate and feasible mitigating measures to remove 1,4 dioxane and other VOCs related to the Eastham landfill from drinking water. This IRA Status report (and the Landfill Monitoring Plan report) discusses activities completed during the third quarter of 2013 (between mid-June and the end of August, 2013). The IRA Plan modification clarifies the monitoring schedule going

forward and outlines activities that will be undertaken over the next three to six months (October 2013 to March 2014).

2.0 STATUS OF IRA RESPONSE ACTIONS

2.1 Private Well Sampling – Phase 3

The primary IRA activity during this report period was the completion of Private Well Sampling – Phase 3 during the last week of July 2013. To summarize IRA sampling activities to date, Phase 1 was completed in February 2013 and Phase 2 was completed in May 2013. These first two Phases were primarily focused on the collection of water samples from private wells in the area hydraulically downgradient of the landfill. Because compounds like 1,4 dioxane dissolved in water typically migrate with the natural flow of groundwater, it was logical and appropriate to focus the initial sampling efforts in areas downgradient of the landfill. These initial sampling events extended the limits of the study area further from the boundary of the landfill in an effort to define the extent of 1,4 dioxane in groundwater and to fully identify private wells that may be affected. Phase 3 primarily included homes to the west of the landfill, which is generally considered to be “cross-gradient” or to the side of the natural flow direction of groundwater.

The Phase 3 sampling event included 64 parcels containing 56 known drinking water wells. Fifty two of the parcels are residential, the rest are commercial or developable land. The Town mailed letters to these parcel owners via certified mail prior to the sampling event. During the last week of July, 51 samples were collected, representing parcel owners who responded to the Town’s request for access to their wells.

For each sampling location, a field visit form was completed to document the date and time when samples were collected, the configuration of the water system and the location where the sample was collected. Field crews also recorded pH, dissolved oxygen (DO), conductivity, and temperature of the water as samples were collected. Field forms summarizing this information are included in Appendix A. Samples were preserved and shipped to Test America laboratories in Burlington, Vermont, for analysis of volatile organic compounds (VOCs) by EPA Method 524.2 and 1,4 dioxane by Method 522. Both methods employ reporting limits that are below the drinking water standard for each compound (or below the proposed standard in the case of 1,4 dioxane).

A summary of these results is provided on Table 1, and the complete laboratory reports are included in Appendix B. Table 1 shows the compounds that were detected during this most recent sampling event, and compares these results to available drinking water standards and/or guidelines (i.e., Office of Research and Standards Guidelines (ORSG), Massachusetts Maximum Contaminant Levels (MMCL), and MCP GW-1 standards). Table 2 includes all sample results for all properties included within these three sampling events.

The properties within the study area are shown on the Site Map included as Figure 1 and each parcel is color coded with one of four colors to represent the sampling results:

- Blue = 1,4 dioxane was not detected. Well water test results in this category were below the reporting limit for 1,4 dioxane of 0.2 µg/L. Since an estimated concentration ("J" value) was not reported, it is inferred that 1,4 dioxane is not present above the detection limit (approximately 0.04 µg/L).
- Yellow = 1,4 dioxane detected at a concentration below the proposed GW-1 standard of 0.3 µg/L. Laboratory results that are below 0.3 µg/L but above the reporting limit of 0.2 µg/L are quantified results, while results below 0.2 µg/L and above the method detection limit of 0.04 µg/L are qualified as estimated values (reported with a "J" qualifier).
- Red = 1,4 dioxane detected above 0.3 µg/L. All residents in the category have been offered bottled water and have been advised to not use their well water for consumptive purposes.
- White = well water not tested. These property owners were contacted by certified mail; however, either no response was received, access was not granted, or the property owner was not available to provide access to their well. As discussed in Section 4.2, many of these property owners will be contacted again to request access to their wells.

During the initial stages of the IRA program, bottled drinking water was offered to residents where 1,4 dioxane was detected above 1.5 µg/L. This level was derived as one half the current MCP, GW-1 groundwater standard of 3 µg/L. MassDEP is in the process of revising the MCP, and one of the modifications is to lower the GW-1 standard for 1,4 dioxane to 0.3 µg/L to be consistent with MassDEP's Office of Research and Standard's guideline. Although this regulatory change has not been finalized, the Town of Eastham has elected to adopt the proposed GW-1 standard as the new bottled water action level. Hence, bottled water has now been offered to all residents whose drinking water test result was at or above 0.3 µg/L. The complete list of properties that meet this criterion is summarized on Table 3.

As required by 310 CMR 40.1403(10) of the MCP, property owners were notified of the laboratory results for samples collected from their properties during the third sampling event. Copies of the notification packages are included in Appendix C.

2.2 Routine Monitoring

The Landfill Monitoring Plan required collection of water samples from certain private wells near the landfill on a routine basis, with laboratory testing for a variety of parameters. When the LMP was revised in August 2012, the requirement for 1,4 dioxane testing was added. Hence, the initial discovery of 1,4 dioxane was from water samples collected under the LMP. With the initiation of the IRA in late 2012 and early 2013, the monitoring schedule for several private wells, some of which are tested under the LMP, was increased to verify the presence of 1,4 dioxane and to establish concentration trends. For the most part, residents included in this program were those

with concentrations of 1,4 dioxane above 3 µg/L in their well water - 325 Schoolhouse Road, 11 Eldia Lane, 50 Alston Road, and 25 and 30 Knowles Street. Initially, the data from this increased monitoring program provided useful information for the stated objective. All laboratory data collected during this routine monitoring program, including samples collected during this reporting period, are included in Table 2. At this time, the existence and concentration trends of 1,4 dioxane in these wells are documented. Therefore, going forward, monitoring that is required by the LMP will continue under the MassDEP-approved plan. Monitoring that will be conducted under the IRA is presented in Section 4.2 and 4.3.

3.0 STATUS OF LANDFILL MONITORING PROGRAM

The Landfill Monitoring Plan was revised in August 2012 to expand the monitoring requirements while discontinuing analysis for some parameters at other locations. In addition, the revised LMP required that the Town analyze groundwater samples for 1,4 dioxane (utilizing EPA Method 8260B or 8270 SIM, with a reporting limit of less than 3 µg/L) at six of the groundwater monitoring locations. A summary of the Landfill Monitoring Plan sampling requirements and schedule are shown on Table 4. This section describes sampling activities completed during the third quarter of 2013.

3.1 Landfill Monitoring Plan Quarterly Sampling

3.1.1 Private Wells

The LMP includes periodic sampling of private well water from homes around the landfill. On August 27 and 28, 2013, private well water samples were collected from two of the three residences that are included in the quarterly sampling program (100 Meetinghouse Road and 180 Old Orchard Road). The owner of the third residence that was scheduled for quarterly testing (285 Alston Avenue) was not available for samples to be collected from this property during this report period. Samples collected from the two residences were preserved and submitted to Test America for analysis of VOCs including 1,4 dioxane, and to the Barnstable County Health Department laboratory for analysis of arsenic. As required by 310 CMR 40.1403(10) of the MCP, property owners were notified of the laboratory results for samples collected from their properties during this report period. Copies of the notification packages are included in Appendix C.

3.1.2 Landfill Monitoring Wells

During this reporting period, LMP monitoring work included the collection of groundwater samples from monitoring wells MW-3I and MW-3D on September 5, 2013. Samples were collected by Barnstable County Health Department personnel and submitted to their laboratory for analysis of VOCs, metals and indicator parameters.

3.1.3 LMP Monitoring Results

Field sampling logs for the private well and monitoring well sampling events are included in Appendix A. The laboratory test results are summarized on Table 5, which includes applicable regulatory standards and/or guidelines. Where available, Table 5 includes laboratory results for data reported since the first quarter of 2012. The complete laboratory reports from Test America are in Appendix B and the laboratory reports from Barnstable County are in Appendix D.

3.2 Additional Sampling

A water sample was collected from the private well at 155 Meetinghouse Road on July 31, 2013, in accordance with the LMP. This sample was analyzed for VOCs including 1,4 dioxane and metals. The results of this sample indicated a lead concentration of 17 µg/L, which is above the GW-1 standard of 15 µg/L. Since lead is not a contaminant of concern associated with the landfill and was believed to be attributed to piping within this home, a confirmatory water sample was collected on August 15, 2013. The sample was collected from the pressure tank near where the well water enters the home, to minimize contact with interior piping. Lead was not detected in this sample above the laboratory reporting limit of 3 µg/L. As required by 310 CMR 40.1403(10) of the MCP, the owners of the 155 Meetinghouse Road property were notified of the laboratory results for samples collected from their property during this report period. A copy of the notification package is included in Appendix C.

4.0 IRA PLAN MODIFICATION

An IRA Plan was originally submitted in January 2013 after 1,4 dioxane was detected in private water well samples. The purpose of this plan was to outline the protocol for the initial sampling events and to establish an action limit for the Town to provide bottled water to affected residents (1,4 dioxane concentrations equal to or greater than 1.5 µg/L). With the completion of three large-scale sampling events and the identification of affected residents within the study area, the purpose of this IRA Plan modification is to outline anticipated activities to be undertaken over the next three to six months.

4.1 Revised Bottled Water Action Level

As previously discussed, the bottled water action level has been revised for 1,4 dioxane to 0.3 µg/L, to be consistent with the proposed GW-1 drinking water standard. All residents whose water test indicated a concentration of 0.3 µg/L or above for 1,4 dioxane are eligible to receive bottled water. These residents are advised to not consume their well water until either appropriate remedies are in place to remove 1,4 dioxane from their water, or a municipal water system is in place.

4.2 Additional Private Well Monitoring

Going forward, additional testing of private well water will be conducted in accordance with the following criteria:

1. Private wells in the study area that have not been tested – the Town mailed over 300 letters to residents to request access to their wells to conduct the first three Phases of sampling. While most residents responded, many did not. Over the next several months, the list of residents that did not respond will be reviewed. The year-round residents (based upon each property owner's mailing address) within the study area that did not respond will be contacted again to request access to their wells. Seasonal residents will be contacted next spring in advance of the 2014 summer season. This criterion applies to homes west of Schoolhouse Road and south of Glacier Hills Road.
2. Further definition of the study area – the extent of 1,4 dioxane to the north and east of the landfill appears to have been mostly defined. To the south and west, 1,4 dioxane has been detected at the furthest extent of the study area. For example, 1,4 dioxane was detected at concentrations of 0.34 µg/L at 35 Sharon Circle and 0.83 µg/L at 40 Starlight Lane. Both properties abut Minister's Pond to the south, and no testing has been completed further south. In concert with Criteria 1, above, year-round residents to the south of Sharon Circle and between Route 6 and Minister's Pond will be contacted this fall for access to their wells, and seasonal residents will be contacted next spring.
3. Additional monitoring of private wells within the study area – several water samples in the study area indicated concentrations of 1,4 dioxane above the reporting limit of 0.2 µg/L but below the proposed GW-1 standard of 0.3 µg/L. Since concentrations of VOCs can fluctuate over time, additional sampling of residences in this category is warranted to verify that concentrations are below the proposed drinking water standard. Year-round residents will be contacted this fall, and seasonal residents will be contacted next spring for access to their wells.
4. Gathering of private well construction information – private wells within the study area have been completed to varying depths in the aquifer. Most wells are completed in the shallow aquifer (within 100 feet or so), although a number of wells were completed in the deeper aquifer (greater than 150 feet). Well completion information has been obtained for many of the wells in the study area, but information is lacking for many other wells. Well depth is an important piece of information in concert with water quality information to better understand the distribution of contaminants and migration patterns. ES&M has, and will continue to gather additional well information for select wells in the study area for inclusion in our database.
5. Periodic testing of remedial systems – Section 4.3, below, outlines a pilot testing program to be implemented at select private wells to determine the viability of certain 1,4 dioxane treatment alternatives. Routine water testing will be conducted at the pilot test locations to determine the efficacy of the treatment systems.

4.3 Water Treatment Pilot Testing

The Town of Eastham is working to gain public approval to provide municipal water to its residents, particularly those living in the neighborhoods surrounding the landfill.

This is the only remedy that is guaranteed to provide safe drinking water across the area. Since it is not known if this project will be approved, or if approved how long it will take to install the system, interim solutions have been implemented and/or are being evaluated as discussed below:

- Bottled drinking water is available to homes where 1,4 dioxane has been detected in their well water at concentrations greater than 0.3 µg/L, and this program will continue as needed.
- At the 50 Alston Avenue residence, the original drinking water well was installed to a depth of more than 160 feet. In an attempt to locate a cleaner source of drinking water for these homeowners, a replacement well was installed during the winter of 2013. Sampling results from this new well (installed to a depth of 80 feet) indicate reduced concentrations of 1,4 dioxane; however, 1,4 dioxane is still present in the water from this new well at concentrations ranging from 0.18 to 0.23 µg/L. While these detected concentrations are below the proposed drinking water standard of 0.3 µg/L, the relocation of additional deep wells to the shallow aquifer is not viewed as a preferred solution because of the uncertainty of success.
- At the 325 Schoolhouse Road residence, an activated carbon system consisting of two fiberglass carbon tanks was installed several years ago to remove VOCs from their drinking water. Routine monitoring of the influent and treated water indicates that the carbon system has been effective at removing 1,4 dioxane and other VOCs. The efficacy of this treatment system has not been fully documented because the home is currently vacant.

The chemical and physical properties of 1,4 dioxane make it difficult to remove from water. Specifically, 1,4 dioxane is hydrophilic, miscible in water, and it is a symmetric molecule with little dipole movement (USEPA, Treatment Technologies for 1,4 dioxane: Fundamentals and Field Applications, 12/2006). In other words, this compound has a high affinity for water, which renders most conventional water treatment technologies ineffective.

ES&M has reviewed a number of literature articles including information from USEPA and many private sources. The general consensus in the scientific community is that activated carbon, a readily available and commonly applied water treatment technology used to remove many impurities from drinking water, is not effective at removing 1,4 dioxane. This is because 1,4 dioxane is only weakly adsorbed onto carbon, and some reports suggest it can be displaced (also known as desorption) by other contaminants, especially if the concentrations of the other contaminants increase suddenly. In more simplistic terms, 1,4 dioxane is held weakly onto the carbon by adsorption, which is a process whereby molecules of the contaminant are bonded to the carbon media by molecular attraction. Compounds such as 1,4 dioxane can bond to carbon, but the molecular attraction is not as strong as with many other VOCs. When a contaminant that is more strongly adsorbed onto carbon (for example, tetrachloroethene) is suddenly introduced, the carbon may suddenly release the 1,4 dioxane in order to adsorb the other contaminant. However, carbon has been demonstrated to be effective in some situations, although the reasons are not well documented. It is possible that higher

grades of carbon can be effective when concentrations of 1,4 dioxane are not excessively elevated and when other VOCs are not present at high concentrations.

USEPA and others have shown that advanced oxidation processes (AOP) have the greatest ability to destroy 1,4 dioxane. Specifically, advanced oxidation processes that generate hydroxyl radicals using some combination of hydrogen peroxide, ozone, ultraviolet (UV) light, and/or a titanium dioxide catalyst have been shown to break apart the 1,4-dioxane molecule creating harmless byproducts (as long as bromine is not present in the water).

ES&M will use a multi-tiered approach to evaluate water treatment technologies that may be used to remove 1,4 dioxane from private water systems in the study area. Two tests are proposed in the near term and others may be completed in the near future pending the outcome of these initial tests.

4.3.1 Near-Term Pilot Tests

ES&M will conduct two tests as part of a site-specific water treatment evaluation. The short term goal of this program is to assess performance characteristics with the hope that a cost-effective, safe, and simple treatment alternative can be identified. Over time it is hoped that one of these technologies or a combination of these technologies can be demonstrated to be effective and reliable such that it can be offered as a replacement for bottled water. The two tests are described below:

Activated Carbon

While the literature does not generally promote activated carbon as a 1,4 dioxane treatment technology, there have been documented cases where it has been effective and preliminary results from the 325 Schoolhouse Road property may support the use of carbon. It warrants testing because home carbon systems are readily available, easy to operate, do not generate harmful by-products, are safe (no potentially harmful chemicals used), and are well-accepted by the scientific and regulatory communities and the general public to treat water containing VOCs.

Carbon-based treatment will be tested on two private wells; one where the 1,4 dioxane concentration is near 10 µg/L and a second where the concentration is significantly lower. This will allow evaluation of carbon within the full range of concentrations found in the study area. Our recommended approach is to more rigorously test the system that has been installed at the 325 School House Road residence¹ and to install a second carbon system at the 255 Alston Avenue residence. The new system will consist of two adsorbers (each filled with about 90 pounds of coconut-based, acid washed, steam activated carbon) plumbed in series with sample ports installed before, between, and after the system. A water flow meter/totalizer will also be installed. The activated carbon in the existing system will be removed and will be replaced with coconut-based, acid washed, steam activated virgin carbon.

¹ This residence is currently vacant. To conduct this test, the water system will be activated sufficiently to simulate typical household use.

Water samples will be collected twice monthly until breakthrough is detected after the primary adsorber in each of the two systems². For each water collection event, the volume of water treated by the system will be recorded. When 1,4 dioxane is detected in the effluent of the primary carbon unit, the carbon in that adsorber will be removed and replaced with virgin carbon. The mass of 1,4 dioxane adsorbed onto the carbon will be calculated and the cost effectiveness of carbon-based treatment will be evaluated.

Advanced Oxidation

A second test is also proposed to evaluate a readily available, point-of-use water treatment device. This device, marketed under the brand name Zuvo Water Filtration System - Series 300, is the only small-scale UV/ozone system that has been identified. We propose to test the device by pumping water from groundwater monitoring well MW-3D into a 300 gallon polyethylene tank. The water will then be pumped through the Zuvo treatment device at a rate of approximately 0.5 gallons per minute with the effluent discharged back into well MW-3D. Water samples will be collected after 100 gallons have been treated, and again after 250 gallons of water have been treated. The sampling plan will include samples before and after treatment, with analysis for VOCs, 1,4 dioxane, and bromine. The results of these samples will be used to determine if this device should be subjected to more rigorous testing at one of the affected residences.

4.3.2 Possible Future Tests

ES&M has identified two manufacturers, BISCO and HF Purewater, who may in the future be able to provide small AOP units that could be integrated into private residential water systems to provide whole-house water treatment. HF Purewater manufactures larger AOP units that are designed for commercial applications, and both manufacturers have stated that they are developing systems for residential use. ES&M will maintain contact with these manufacturers as they design, refine, and test their systems. If they appear to offer safe, cost-effective 1,4 dioxane removal, pilot testing may be proposed for one or more of the affected residences in the future.

BISCO has developed an ozone-based treatment device, ClearDioxane™, that is currently being tested at a site in Connecticut. The device reportedly creates very small bubbles of ozone which are injected into a vessel containing the water to be treated. The bubbles move countercurrent to the flow of water, thereby promoting contact between the ozone bubbles and the dioxane molecules. Excess gaseous ozone is vented to the atmosphere and dissolved ozone is removed in a small activated carbon adsorber. ES&M will remain in contact with BISCO and will review their pilot test data as soon as it is available.

² There is limited information on the mass of 1,4-dioxane that can be adsorbed onto carbon. Based on testing done by Michael Curry, a UNH graduate student and published in his Master's Thesis (2009), adsorption of 14.5 micrograms of 1,4 dioxane per gram of carbon is a reasonable estimate. At an assumed concentration of 5 µg/l and a usage rate of 300 gallons per day, a primary adsorber containing 90 pounds of carbon would reach its adsorptive capacity after 104 days. It is recognized that breakthrough would occur sooner.

HF Purewater manufactures packaged AOP systems for the treatment of water and wastewater. They manufacture systems that use both ozone/UV light and hydrogen peroxide/UV light to generate the hydroxyl radicals that have the proven ability to destroy the 1,4 dioxane molecule. Their smallest unit is designed to treat a constant 20 gallon per minute waste stream, which far exceeds residential water usage criteria. ES&M has had discussions with them about the potential development of a small-scale system capable of destroying 1,4 dioxane in residential private well systems. We will continue to monitor their progress in the development of a residential-based AOP system.

5.0 FUTURE SCHEDULE OF LMP AND IRA ACTIVITIES

5.1 *Landfill Monitoring Plan Activities*

- Collect groundwater samples from wells MW-3I and MW-3D in November for analysis of indicator parameters, metals and VOCs including 1,4 dioxane. Also collect samples from well MW-21S for analysis of VOCs including 1,4 dioxane only.
- Collect private well water samples from 285 Alston Avenue, 100 Meetinghouse Road and 180 Old Orchard Road for analysis of VOCs including 1,4 dioxane and arsenic. Also collect samples from the well at 325 Schoolhouse Road for analysis of VOCs including 1,4 dioxane only.
- Monitor landfill gas wells GMW-1, 2, 2A, 2B, 3 and 4 for methane, VOCs, oxygen and hydrogen sulfide.

5.2 *IRA Activities*

- Identify private wells in the study area that have not been tested, and document the reason these wells were not tested. For residents that elect to participate in the sampling program, implement a sampling program for year-round residents this fall, and seasonal residents next spring/summer.
- Identify parcels and private wells south of Minister's Pond and east of Schoolhouse Pond and implement a sampling program to expand the study area to the south.
- Identify private wells within the study area that have concentrations of 1,4 dioxane above the reporting limit of 0.2 µg/L but below the proposed GW-1 standard of 0.3 µg/L. Year-round residents will be contacted this fall, and seasonal residents will be contacted next spring for access to their wells.
- Gather well construction information for select wells in the study area, and any new well that is included in the expanded study area.
- Install an activated carbon system at the 255 Alston Avenue residence, and implement pilot testing sampling protocol for this system and the system at the 325 Schoolhouse Road residence.
- Complete pilot testing of the point-of-use AOP system and evaluate its possible use at one or more of the affected private wells.

6.0 PUBLIC OUTREACH

The landfill monitoring program and associated Immediate Response Action activities have affected many residents in the vicinity of the landfill. ES&M believes it is vitally important for there to be good lines of communication to the residents so that these complex issues can be discussed openly, and so that any and all questions can be answered. To foster open communication, the following is offered:

Availability of Reports

All reports required by MassDEP are available on their website (<http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=4-0024301>) and on the Town of Eastham's website (http://www.eastham-ma.gov/Public_Documents/index). Hard copies of reports are available at Town Hall and at the Eastham Public Library.

Direct Communications

Questions on the ongoing work related to this matter may be directed to:

Jane Crowley, Health Agent, Eastham Board of Health
508-240-5900, x229
jcrowley@eastham-ma.gov

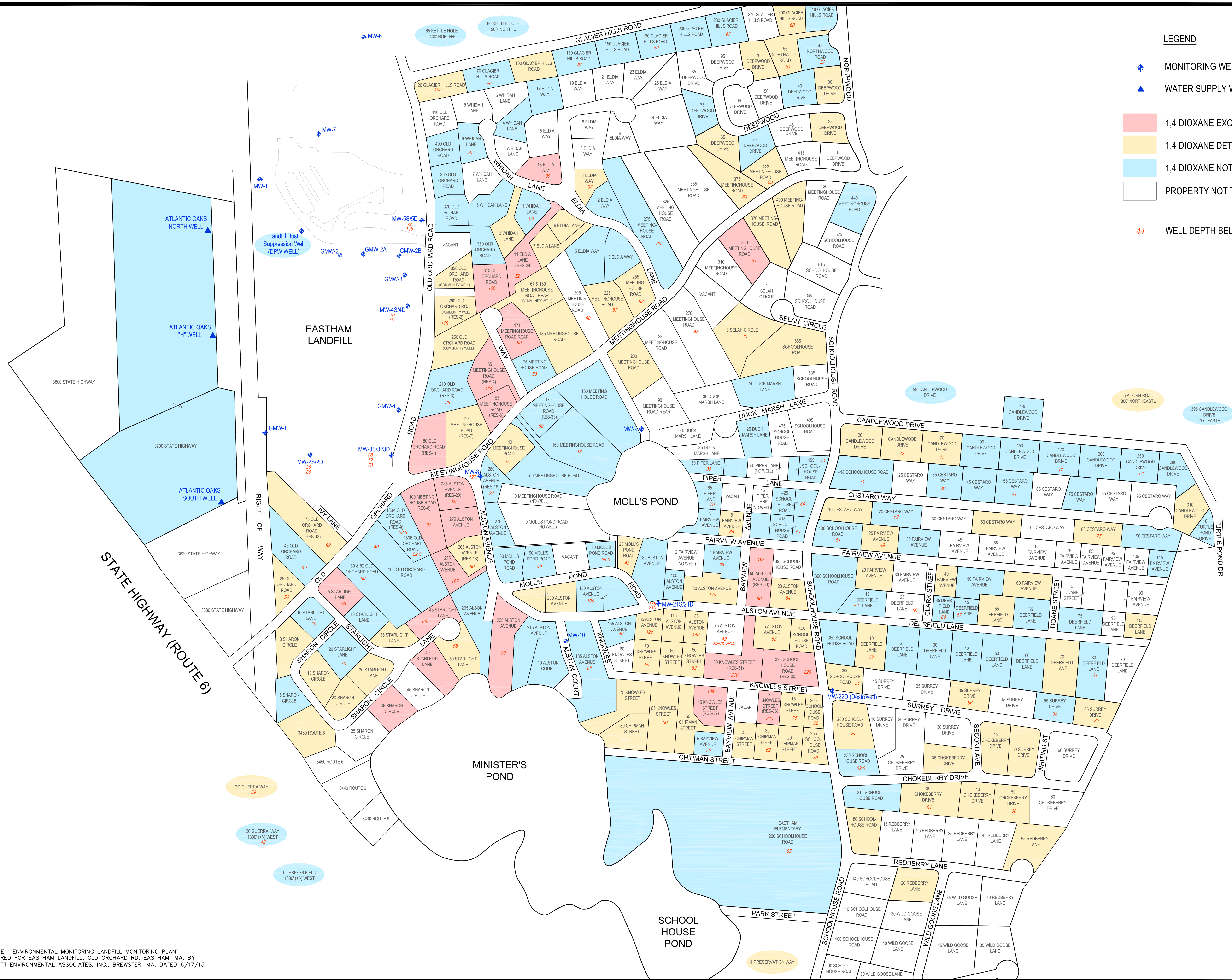
Doug Heely, Licensed Site Professional, Environmental Strategies & Management
508-226-1800
dheely@esm-inc.com

Public Meeting

The Town of Eastham will host a public meeting later this fall to present an update of IRA activities. The date and time of this meeting will be posted on the Town's website in the coming weeks.

FIGURES

SOURCE: "ENVIRONMENTAL MONITORING LANDFILL MONITORING PLAN"
PREPARED FOR EASTHAM LANDFILL, OLD ORCHARD RD, EASTHAM, MA, BY
BENNETT ENVIRONMENTAL ASSOCIATES, INC., BREWSTER, MA, DATED 6/17/13.



LEGEND

◆ MONITORING WELL

▲ WATER SUPPLY WELL

1,4 DIOXANE EXCEEDS 0.3 ug/L [PROPOSED MCP METHOD 1 GW-1 STANDARD]

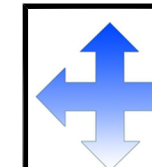
1,4 DIOXANE DETECTED AT OR BELOW 0.3 ug/L

1,4 DIOXANE NOT DETECTED

PROPERTY NOT TESTED

44 WELL DEPTH BELOW GROUND SURFACE

0 200' 400'
SCALE FEET



Environmental
Strategies
& Management

273 West Main Street
Norton, MA 02766
(508) 226-1800
(508) 226-1811 fax
info@esm-inc.com

GAUGING DATE: DRAWING DATE: 9/26/13 ACAD FILE: EASTHAM LANDFILL

SITE MAP

CLIENT:	TOWN OF EASTHAM	PM:
LOCATION:	OLD ORCHARD ROAD EASTHAM, MASSACHUSETTS	LSP: DH
RTN:	DWG:	PROJECT NO.:
4-24301	DMR	2013-027
		FIGURE: 1

TABLE 1
SUMMARY OF
PRIVATE WELL SAMPLING PROGRAM - PHASE 3 SAMPLING EVENT
Volatile Organic Compounds
Detected Compounds Only
August 2013
Private Drinking Water Wells Residential Properties
Eastham, MA
(All results in ug/l)

Property	Date		1,4 Dioxane	Acetone	Chloroform	Chloromethane	cis-1,2- Dichloroethene	Dichlorodifluoromethane	Methyl tert- butyl ether	Total Trihalomethanes
Standards										
ORSG		NA	0.3	6300	70	NA	NA	1400	70	NA
MMCL			NA	NA	NA	NA	70	NA	NA	80
GW1			0.3*	6300	70	NA	70	NA	70	NA
Results										
80 Alston Avenue	8/27/2013	480-44857-1	0.057J	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50	1.5	< 2.0
115 Alston Avenue	7/22/2013	480-42477-11	0.12J	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50	0.69	< 2.0
235 Alston Avenue	7/31/2013	480-43031-18	< 0.20	1.3J	< 0.50	0.10J	< 0.50	< 0.50	< 0.50	< 2.0
255 Alston Avenue	8/27/2013	480-44857-2	1.8	1.8J	0.83	< 0.50	0.28J	< 0.50	0.17J	< 2.0
Atlantic Oaks 'H' Well	7/25/2013	480-42740-24	< 0.20	< 2.5	1.1	< 0.50	< 0.50	< 0.50	< 0.50	1.1J
Atlantic Oaks North Well	7/25/2013	480-42740-26	< 0.20	2.2J B	0.74	0.091J	< 0.50	< 0.50	< 0.50	< 2.0
Atlantic Oaks-South Well	7/23/2013	480-42551-1	< 0.20	0.95J	0.96	0.074J	< 0.50	< 0.50	< 0.50	< 2.0
55 Candlewood Drive	7/25/2013	480-42740-12	< 0.20	1.1J	0.29J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
170 Candlewood Drive	7/25/2013	480-42740-1	< 0.20	0.55J	0.51	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
20 Chipman Street	7/25/2013	480-42740-3	0.041J	0.74J	0.22J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
40 Chipman Street	7/31/2013	480-43031-12	0.046J	1.3J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
25 Deepwood Drive	7/30/2013	480-42959-1	0.073J	3.0	0.72	< 0.50	< 0.50	< 0.50	0.25J	< 2.0
30 Deepwood Drive	7/31/2013	480-43031-22	0.040J	0.57J	0.32J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
40 Deepwood Drive	7/24/2013	480-42639-5	< 0.20	1.6J	3.9	< 0.50	< 0.50	< 0.50	0.16J	3.9
45 Deepwood Drive	7/24/2013	480-42639-9	< 0.20	2.2J	0.67	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
55 Deepwood Drive	7/25/2013	480-42740-18	< 0.20	2.9	0.19J	0.11J	< 0.50	< 0.50	< 0.50	< 2.0
65 Deepwood Drive	7/30/2013	480-42959-7	0.29	1.8J	0.49J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
	7/30/2013	Duplicate	480-42959-8	0.24	1.4J	0.51	< 0.50	< 0.50	< 0.50	< 2.0
70 Deepwood Drive	7/30/2013	480-42959-9	0.073J	1.1J	0.68	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
75 Deepwood Drive	7/30/2013	480-42959-5	< 0.20	1.0J	0.16J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
30 Deerfield Lane	7/22/2013	480-42477-9	< 0.20	0.89J	0.17J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
75 Deerfield Lane	7/25/2013	480-42740-14	< 0.20	4.2	1.1	< 0.50	< 0.50	< 0.50	< 0.50	1.1J
2 Eldia Way	8/2/2013	480-43204-7	< 0.20	0.67J	< 0.50	< 0.50	< 0.50	< 0.50	0.40J	< 2.0
13 Eldia Way	7/24/2013	480-42639-1	0.33	2.8	< 0.50	< 0.50	0.14J	< 0.50	0.15J	< 2.0
115 Fairview Avenue	7/22/2013	480-42477-3	< 0.20	1.2J	0.56	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
70 Glacier Hills Road	7/22/2013	480-42477-13	< 0.20	1.5J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
130 Glacier Hills Road	7/23/2013	480-42551-11	< 0.20	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
150 Glacier Hills Road	7/24/2013	480-42639-11	< 0.20	3.7	0.87	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
180 Glacier Hills Road	8/2/2013	480-43204-1	< 0.20	0.86J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
200 Glacier Hills Road	7/31/2013	480-43031-5	< 0.20	0.78J	0.45J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
230 Glacier Hills Road	7/25/2013	480-42740-5	< 0.20	0.68J	0.74	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
300 Glacier Hills Road	7/31/2013	480-43031-7	0.077J	1.2J	0.86	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
310 Glacier Hills Road	7/25/2013	480-42740-7	< 0.20	0.60J	1.1	< 0.50	< 0.50	< 0.50	< 0.50	1.1J

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
L - LCS or LCSD exceeded the control limits. Results may be biased high.
* Proposed GW-1 Standard

Property	Date		1,4 Dioxane	Acetone	Chloroform	Chloromethane	cis-1,2- Dichloroethene	Dichlorodifluoromethane	Methyl tert- butyl ether	Total Trihalomethanes
65 Knowles Street	7/23/2013	480-42551-13	0.11J	2.2 J L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
275 Meetinghouse Road	7/23/2013	480-42551-9	< 0.20	1.5 J L	< 0.50	< 0.50	< 0.50	< 0.50	0.26J	< 2.0
350 Meetinghouse Road	7/25/2013	480-42740-22	1.3	2.2J	0.51	< 0.50	< 0.50	0.36 J L	< 0.50	< 2.0
	7/25/2013	Duplicate 480-42740-23	1.2	< 2.5	0.55	< 0.50	< 0.50	0.37 J L	< 0.50	< 2.0
375 Meetinghouse Road	8/2/2013	480-43204-3	0.19J	0.78J	0.49J	0.073J	< 0.50	< 0.50	0.35J	< 2.0
385 Meetinghouse Road	7/24/2013	480-42639-3	0.040J	0.94J	0.79	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
400 Meetinghouse Road	7/24/2013	480-42639-13	0.12J	0.85J	1.0	< 0.50	< 0.50	< 0.50	0.14J	1.0J
440 Meetinghouse Road	7/31/2013	480-43031-16	< 0.20	1.3J	0.20J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
55 Northwood Road	8/2/2013	480-43204-5	0.15J	1.2J	0.56	0.066J	< 0.50	< 0.50	< 0.50	< 2.0
65 Piper Lane	7/31/2013	480-43031-1	< 0.20	1.6J	< 0.50	0.12J	< 0.50	< 0.50	< 0.50	< 2.0
20 Redberry Lane	7/23/2013	480-42551-5	0.046J	1.5 J L	< 0.50	< 0.50	< 0.50	< 0.50	0.14J	< 2.0
55 Redberry Lane	7/22/2013	480-42477-7	0.047J	0.68J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
180 Schoolhouse Road	7/23/2013	480-42551-3	0.093J	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
255 Schoolhouse Road	7/22/2013	480-42477-1	0.055J	0.88J	< 0.50	0.076J	< 0.50	< 0.50	< 0.50	< 2.0
350 Schoolhouse Road	8/2/2013	480-43204-9	< 0.20	0.67J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
3 Sharon Circle	7/31/2013	480-43031-3	0.064J	1.3J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
40 Starlight Lane	7/23/2013	480-42551-7	0.83	1.5 J L	0.27J	< 0.50	< 0.50	0.16J	< 0.50	< 2.0
50 Starlight Lane	7/31/2013	480-43031-14	0.13J	1.0J	< 0.50	0.078J	< 0.50	< 0.50	< 0.50	< 2.0
35 Surrey Drive	7/31/2013	480-43031-9	0.070J	1.1J	< 0.50	< 0.50	< 0.50	< 0.50	0.22J	< 2.0
65 Surrey Drive	7/22/2013	480-42477-5	0.047J	0.65J	0.51	< 0.50	< 0.50	< 0.50	0.41J	< 2.0
4 Whidah Lane	7/24/2013	480-42639-7	< 0.20	0.89J	< 0.50	< 0.50	< 0.50	< 0.50	0.23J	< 2.0
5 Whidah Lane	7/30/2013	480-42959-3	< 0.20	< 2.5	0.16J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
L - LCS or LCSD exceeded the control limits. Results may be biased high.
* Proposed GW-1 Standard

9/26/2013 Page 2 of 2
Report: Table 1 Detected VOC Event #3
Database: Eastham Database



Property	Date	Duplicate	1,1,1,2- 4 Dioxane	1,1,1,2- Tetrachloroethane	1,1,1- Trichloroethane	1,1,2- Tetrachloroethane	1,1,2- Trichloro-1,2,2- trifluoroethane	1,1,2- Trichloroethane	1,1- Dichloroethane	1,1- Dichloroethene	1,1- Dichloropropene	1,2,3- Trichlorobenzene	1,2,3- Trichloropropene	1,2,4- Trichlorobenzene	1,2,4- Trimethylbenzene	1,2-Dibromo-3- Chloropropene	1,2- Dibromoethane	1,2- Dichlorobenzene
Standards																		
ORSG			0.3	NA	NA	NA	210000	NA	70	NA	NA	NA	NA	NA	NA	NA	NA	NA
MMCL			NA	NA	200	NA	NA	5	NA	7	NA	NA	NA	70	NA	0.2	0.02	600
GW1			0.3*	5	200	2	NA	5	70	7	NA	NA	NA	70	NA	NA	0.02	600
Results																		
5 Acorn Road	5/3/2013		0.042J	< 0.50	0.13J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
10 Alston Court	2/14/2013		< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
20 Alston Avenue	2/22/2013		0.18J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
50 Alston Avenue	7/25/2013		0.18J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	6/27/2013		0.18J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.24J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	5/29/2013		0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.25J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	5/1/2013		0.18J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.28J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	3/14/2013		0.20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/2013		0.23	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.25J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	3/4/2013		0.23	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.27J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2/14/2013		5.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.24J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2/14/2013	Duplicate	5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
65 Alston Avenue	2/19/2013		0.099J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
80 Alston Avenue	8/27/2013		0.057J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2/11/2013		< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
85 Alston Avenue	2/12/2013		0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
100 Alston Avenue	2/11/2013		< 0.20	&lt														



*Environmental
Strategies
& Management*

Notes: NS - Not Sampled
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 B - Analyte detected in Blank and Sample
 L - LCS or LCSD exceeded the control limits. Results may be biased high.
 * Proposed GW-1 Standard

9/23/2013 Page 4 of 5
 Report: Table 2 VOC Section 1
 Database: Eastham Database



TABLE 2
SUMMARY OF
PRIVATE WELL SAMPLING PROGRAM - ALL SAMPLING EVENTS
Volatile Organic Compounds
Section 2
Private Drinking Water Wells Residential Properties
Eastham, MA
(All results in ug/l)

Property	Date	Duplicate	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromoform
Standards																			
ORSG			NA	NA	NA	NA	NA	NA	NA	4000	NA	NA	NA	350	6300	NA	NA	NA	NA
MMCL			5	5	NA	NA	NA	5	NA	NA	NA	NA	NA	NA	NA	5	NA	NA	NA
GW1			5	5	NA	40	NA	5	NA	4000	NA	NA	NA	350	6300	5	NA	NA	4
Results																			
5 Acorn Road	5/3/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
10 Alston Court	2/14/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
20 Alston Avenue	2/22/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
50 Alston Avenue	7/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	2.1J	< 0.50	< 0.50	< 0.50	< 0.50
	6/27/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
	5/29/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
	5/1/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
	3/14/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	16	< 0.50	< 0.50	< 0.50	< 2.5	7.5	< 0.50	< 0.50	< 0.50	< 0.50
	3/4/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	16	< 0.50	< 0.50	< 0.50	< 2.5	8.4	< 0.50	< 0.50	< 0.50	< 0.50
	2/14/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	0.40J	< 0.50	< 0.50	< 0.50
	2/14/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
65 Alston Avenue	2/19/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
80 Alston Avenue	8/27/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
	2/11/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
85 Alston Avenue	2/12/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.2J	< 0.50	< 0.50	< 0.50	< 0.50
100 Alston Avenue	2/11/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
115 Alston Avenue	7/22/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
130 Alston Avenue	2/19/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
135 Alston Avenue	2/11/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.60J	< 0.50	< 0.50	< 0.50	< 0.50
150 Alston Avenue	2/15/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
155 Alston Avenue	2/11/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
185 Alston Avenue	2/14/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
200 Alston Avenue	5/1/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
215 Alston Avenue	2/12/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.5J	< 0.50	< 0.50	< 0.50	< 0.50
225 Alston Avenue	4/29/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
235 Alston Avenue	7/31/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.3J	< 0.50	< 0.50	< 0.50	< 0.50
255 Alston Avenue	8/27/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.8J	< 0.50	< 0.50	< 0.50	< 0.50
	5/6/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/6/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/14/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.67J	< 0.50	< 0.50	< 0.50	< 0.50
	2/14/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
265 Alston Avenue	3/14/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
270 Alston Avenue	2/11/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.64J	< 0.50	< 0.50	< 0.50	< 0.50
275 Alston Avenue	5/16/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.56J	< 0.50	< 0.50	< 0.50	< 0.50
	5/16/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.1J	< 0.50	< 0.50	< 0.50	< 0.50
280 Alston Avenue	2/22/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
285 Alston Avenue	5/8/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
	2/22/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
	2/22/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
Atlantic Oaks 'H' Well	7/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
Atlantic Oaks North Well	7/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	2.2J B	< 0.50	< 0.50	< 0.50	< 0.50
Atlantic Oaks-South Well	7/23/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.95J	< 0.50	< 0.50	< 0.50	< 0.50
5 Bayview Avenue	2/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
60 Briggs Field Road	5/1/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
20 Candlewood Drive	5/29/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.0J	< 0.50	< 0.50	< 0.50	< 0.50
50 Candlewood Drive	5/3/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
55 Candlewood Drive	7/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.1J	< 0.50	< 0.50	< 0.50	< 0.50
70 Candlewood Drive	5/3/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
100 Candlewood Drive	5/3/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
145 Candlewood Drive	5/2/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
150 Candlewood Drive	5/2/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
170 Candlewood Drive	7/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.55J	< 0.50	< 0.50	< 0.50	< 0.50
200 Candlewood Drive	5/8/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
L - LCS or LCSD exceeded the control limits. Results may be biased high.
* Proposed GW-1 Standard



Property	Date	Duplicate	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	4-Chlorotoluene	Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromoform
255 Meetinghouse Road	4/26/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
275 Meetinghouse Road	7/23/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.5 J L	< 0.50	< 0.50	< 0.50	< 0.50
350 Meetinghouse Road	7/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	2.2J	< 0.50	< 0.50	< 0.50
	7/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
370 Meetinghouse Road	4/30/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
375 Meetinghouse Road	8/2/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.78J	< 0.50	< 0.50	< 0.50
385 Meetinghouse Road	7/24/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.94J	< 0.50	< 0.50	< 0.50
400 Meetinghouse Road	7/24/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.85J	< 0.50	< 0.50	< 0.50
440 Meetinghouse Road	7/31/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.3J	< 0.50	< 0.50	< 0.50
20 Molls Pond Road	2/19/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
30 Molls Pond Road	2/15/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.79J	< 0.50	< 0.50	< 0.50	
50 Molls Pond Road	2/11/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
60 Molls Pond Road	2/11/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.72J	< 0.50	< 0.50	< 0.50	
55 Northwood Road	8/2/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.2J	< 0.50	< 0.50	< 0.50	
25 Old Orchard Road	5/6/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
45 Old Orchard Road	2/22/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
75 Old Orchard Road	2/21/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
80 Old Orchard Road	2/12/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.70J	< 0.50	< 0.50	< 0.50	
100 Old Orchard Road	2/12/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.80J	< 0.50	< 0.50	< 0.50	
130A Old Orchard Road	2/25/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
130B Old Orchard Road	2/25/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
180 Old Orchard Road	8/28/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
	6/27/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
	5/8/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
	2/22/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
210 Old Orchard Road	2/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
290 Old Orchard Road	5/16/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/9/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
	2/15/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
310 Old Orchard Road	4/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
350 Old Orchard Road	5/3/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
370 Old Orchard Road	5/2/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.1J	< 0.50	< 0.50	< 0.50	
390 Old Orchard Road	5/7/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
400 Old Orchard Road	5/7/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
50 Piper Lane	2/20/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.1J	< 0.50	< 0.50	< 0.50	
65 Piper Lane	7/31/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.6J	< 0.50	< 0.50	< 0.50	
4 Preservation Way	4/30/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
20 Redberry Lane	7/23/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.5 J L	< 0.50	< 0.50	< 0.50	
55 Redberry Lane	7/22/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.68J	< 0.50	< 0.50	< 0.50	
180 Schoolhouse Road	7/23/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
200 Schoolhouse Road	2/12/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
210 Schoolhouse Road	5/6/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
230 Schoolhouse Road	5/8/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.93J B	< 0.50	< 0.50	< 0.50	
255 Schoolhouse Road	7/22/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.88J	< 0.50	< 0.50	< 0.50	
265 Schoolhouse Road	2/21/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.59J	< 0.50	< 0.50	< 0.50	
280 Schoolhouse Road	2/22/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
300 Schoolhouse Road	2/19/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	
325 Schoolhouse Road	Untreated 8/27/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.4J	0.63	< 0.50	< 0.50	< 0.50
	Mid System 8/27/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.57J	< 0.50	< 0.50	< 0.50	< 0.50
	Effluent 8/27/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
	Untreated 7/31/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.3J	0.59	< 0.50	< 0.50	< 0.50
	Untreated 7/31/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.0J	0.60	< 0.50	< 0.50	< 0.50
	Mid System 7/31/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
	Effluent 7/31/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
	Untreated 6/27/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	<							

Notes:

- NS - Not Sampled
- J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- B - Analyte detected in Blank and Sample
- L - LCS or LCSD exceeded the control limits. Results may be biased high.
- * Proposed GW-1 Standard

9/23/2013 Page 4 of 5
Report: Table 2 VOC Section 2
Database: Eastham Database



Property		Date	Duplicate	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromoform
325 Schoolhouse Road	Effluent	3/14/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	Mid System	3/8/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
	Effluent	3/8/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.61J	< 0.50	< 0.50	< 0.50	< 0.50
	Mid System	2/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
	Effluent	2/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
	Untreated	2/22/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	0.66	< 0.50	< 0.50	< 0.50
	Untreated	2/22/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	0.63	< 0.50	< 0.50	< 0.50
345 Schoolhouse Road		2/12/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
350 Schoolhouse Road		8/2/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.67J	< 0.50	< 0.50	< 0.50	< 0.50
390 Schoolhouse Road		5/7/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
400 Schoolhouse Road		5/16/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/9/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
415 Schoolhouse Road		2/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
418 Schoolhouse Road		5/2/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
425 Schoolhouse Road		2/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
455 Schoolhouse Road		5/6/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
555 Schoolhouse Road		5/29/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/9/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
3 Selah Circle		4/30/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
3 Sharon Circle		7/31/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.3J	< 0.50	< 0.50	< 0.50	< 0.50
5 Sharon Circle		5/3/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
10 Sharon Circle		5/16/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/9/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
20 Sharon Circle		4/30/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
35 Sharon Circle		5/1/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
21 Smith Lane		5/9/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
5 Starlight Lane		2/21/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
		2/21/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
10 Starlight Lane		5/10/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.79J	< 0.50	< 0.50	< 0.50	< 0.50
13 Starlight Lane		5/10/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.62J	< 0.50	< 0.50	< 0.50	< 0.50
20 Starlight Lane		5/7/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
30 Starlight Lane		5/3/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
35 Starlight Lane		2/15/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
40 Starlight Lane		7/23/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.5 J L	< 0.50	< 0.50	< 0.50	< 0.50
45 Starlight Lane		2/12/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
		2/12/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
50 Starlight Lane		7/31/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.0J	< 0.50	< 0.50	< 0.50	< 0.50
3460 State Highway		4/30/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
35 Surrey Drive		7/31/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.1J	< 0.50	< 0.50	< 0.50	< 0.50
50 Surrey Drive		4/30/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
55 Surrey Drive		5/1/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
65 Surrey Drive		7/22/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.65J	< 0.50	< 0.50	< 0.50	< 0.50
10 Turtle Pond Road		5/10/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.63J	< 0.50	< 0.50	< 0.50	< 0.50
1 Whidah Lane		4/29/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
3 Whidah Lane		5/16/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/9/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
4 Whidah Lane		7/24/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.89J	< 0.50	< 0.50	< 0.50	< 0.50
5 Whidah Lane		7/30/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50
9 Whidah Lane		5/7/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
L - LCS or LCSD exceeded the control limits. Results may be biased high.
* Proposed GW-1 Standard



TABLE 2
SUMMARY OF
PRIVATE WELL SAMPLING PROGRAM - ALL SAMPLING EVENTS
Volatile Organic Compounds
Section 3
Private Drinking Water Wells Residential Properties
Eastham, MA
(All results in ug/l)

Property	Date	Duplicate	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2- Dichloroethene	cis-1,3- Dichloropropene	Dibromomethane	Dichlorobromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene
Standards																	
ORSG			10	NA	NA	NA	NA	70	NA	NA	NA	NA	NA		1400	NA	NA
MMCL			NA	5	100	NA	NA	NA	NA	70	NA	NA	NA		NA	700	NA
GW1			10	5	100	2	NA	70	NA	70	NA	NA	3		NA	700	0.6
Results																	
5 Acorn Road	5/3/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.68	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
10 Alston Court	2/14/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
20 Alston Avenue	2/22/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.095J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
50 Alston Avenue	7/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	6/27/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	5/29/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	5/1/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	3/14/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.33J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	3/4/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.37J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2/14/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.24J	0.17J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2/14/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
65 Alston Avenue	2/19/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
80 Alston Avenue	8/27/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2/11/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
85 Alston Avenue	2/12/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
100 Alston Avenue	2/11/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
115 Alston Avenue	7/22/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
130 Alston Avenue	2/19/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
135 Alston Avenue	2/11/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
150 Alston Avenue	2/15/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
155 Alston Avenue	2/11/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
185 Alston Avenue	2/14/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.081J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
200 Alston Avenue	5/1/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.15J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
215 Alston Avenue	2/12/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.13J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
225 Alston Avenue	4/29/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.23J	< 0.50	0.23J	< 0.50	< 0.50	< 0.50	< 0.50	0.11J	< 0.50	< 0.50
235 Alston Avenue	7/31/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
255 Alston Avenue	8/27/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.83	< 0.50	0.28J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	5/6/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/6/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/14/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.88	< 0.50	0.36J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2/14/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
265 Alston Avenue	3/14/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
270 Alston Avenue	2/11/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
275 Alston Avenue	5/16/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.75	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	5/16/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.72	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
280 Alston Avenue	2/22/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
285 Alston Avenue	5/8/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.47J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2/22/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.59	< 0.50	0.29J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2/22/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.55	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Atlantic Oaks 'H' Well	7/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Atlantic Oaks North Well	7/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.74	0.091J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Atlantic Oaks-South Well	7/23/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.96	0.074J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
5 Bayview Avenue	2/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.19J	0.20J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
60 Briggs Field Road	5/1/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
20 Candlewood Drive	5/29/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
50 Candlewood Drive	5/3/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.36J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
55 Candlewood Drive	7/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.29J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
70 Candlewood Drive	5/3/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.47J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
100 Candlewood Drive	5/3/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.39J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
145 Candlewood Drive	5/2/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.89	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
150 Candlewood Drive	5/2/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
170 Candlewood Drive	7/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.51	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
200 Candlewood Drive	5/8/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.49J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
250 Candlewood Drive	5/7/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.63	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
280 Candlewood Drive	5/6/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.74	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
L - LCS or LCSD exceeded the control limits. Results may be biased high.
* Proposed GW-1 Standard



Property	Date	Duplicate	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2- Dichloroethene	cis-1,3- Dichloropropene	Dibromomethane	Dichlorobromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene
325 Schoolhouse Road	Mid System 3/8/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	Effluent 3/8/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	Mid System 2/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.23J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	Effluent 2/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	Untreated 2/22/2013		< 0.50	< 0.50	< 0.50	< 0.50	0.63	< 0.50	< 0.50	2.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.053J
	Untreated 2/22/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	0.59	< 0.50	< 0.50	2.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
345 Schoolhouse Road	2/12/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
350 Schoolhouse Road	8/2/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
390 Schoolhouse Road	5/7/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
400 Schoolhouse Road	5/16/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/9/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.071J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
415 Schoolhouse Road	2/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.16J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
418 Schoolhouse Road	5/2/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.22J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
425 Schoolhouse Road	2/25/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.31J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
455 Schoolhouse Road	5/6/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.22J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
555 Schoolhouse Road	5/29/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/9/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.72	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3 Selah Circle	4/30/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.71	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3 Sharon Circle	7/31/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
5 Sharon Circle	5/3/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.17J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
10 Sharon Circle	5/16/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/9/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.26J	0.084J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
20 Sharon Circle	4/30/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
35 Sharon Circle	5/1/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.39J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
21 Smith Lane	5/9/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
5 Starlight Lane	2/21/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.73	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2/21/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.73	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
10 Starlight Lane	5/10/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
13 Starlight Lane	5/10/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.21J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
20 Starlight Lane	5/7/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.16J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
30 Starlight Lane	5/3/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.59	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
35 Starlight Lane	2/15/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
40 Starlight Lane	7/23/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.27J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.16J	< 0.50	< 0.50	< 0.50
45 Starlight Lane	2/12/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.26J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2/12/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.25J	< 0.50	0.17J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
50 Starlight Lane	7/31/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.078J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3460 State Highway	4/30/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
35 Surrey Drive	7/31/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
50 Surrey Drive	4/30/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.31J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
55 Surrey Drive	5/1/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.28J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
65 Surrey Drive	7/22/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.51	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
10 Turtle Pond Road	5/10/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1 Whidah Lane	4/29/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3 Whidah Lane	5/16/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/9/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.38J	0.099J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4 Whidah Lane	7/24/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
5 Whidah Lane	7/30/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.16J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
9 Whidah Lane	5/7/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
L - LCS or LCSD exceeded the control limits. Results may be biased high.
* Proposed GW-1 Standard

TABLE 2
SUMMARY OF
PRIVATE WELL SAMPLING PROGRAM - ALL SAMPLING EVENTS
Volatile Organic Compounds
Section 4
Private Drinking Water Wells Residential Properties
Eastham, MA
(All results in ug/l)

Property	Date	Duplicate	Methyl tert-butyl ether	Methylene Chloride	m-Xylene and p-Xylene	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	t-Butanol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Trihalomethanes	Vinyl chloride	Total Xylenes
Standards																						
ORSG			70	NA	NA	140	NA	NA	NA	NA	NA	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MMCL			NA	5	NA	NA	NA	NA	NA	NA	100	NA	NA	5	1000	100	NA	5	NA	80	2	10000
GW1			70	5	10000	140	NA	NA	10000	NA	100	NA	NA	5	1000	100	NA	5	NA	NA	2	10000
Results																						
5 Acorn Road	5/3/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
10 Alston Court	2/14/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
20 Alston Avenue	2/22/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
50 Alston Avenue	7/25/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
	6/27/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
	5/29/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
	5/1/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	0.14J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
	3/14/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	1.5	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
	3/4/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	3.8	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
	2/14/2013		0.84	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	5.1J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
	2/14/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
65 Alston Avenue	2/19/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
80 Alston Avenue	8/27/2013		1.5	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
	2/11/2013		1.7	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
85 Alston Avenue	2/12/2013		0.31J	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
100 Alston Avenue	2/11/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
115 Alston Avenue	7/22/2013		0.69	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
130 Alston Avenue	2/19/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
135 Alston Avenue	2/11/2013		0.26J	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
150 Alston Avenue	2/15/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
155 Alston Avenue	2/11/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
185 Alston Avenue	2/14/2013		0.56	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
200 Alston Avenue	5/1/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
215 Alston Avenue	2/12/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
225 Alston Avenue	4/29/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.075J	< 1.0
235 Alston Avenue	7/31/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
255 Alston Avenue	8/27/2013		0.17J	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	0.090J	< 1.0
	5/6/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/6/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/14/2013		0.19J	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
	2/14/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
265 Alston Avenue	3/14/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
270 Alston Avenue	2/11/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
275 Alston Avenue	5/16/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
	5/16/2013	Duplicate	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
280 Alston Avenue	2/22/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
285 Alston Avenue	5/8/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
	2/22/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
	2/22/2013	Duplicate	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
Atlantic Oaks 'H' Well	7/25/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1J	< 0.50	< 1.0
Atlantic Oaks North Well	7/25/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
Atlantic Oaks-South Well	7/23/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
5 Bayview Avenue	2/25/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
60 Briggs Field Road	5/1/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
20 Candlewood Drive	5/29/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
50 Candlewood Drive	5/3/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
55 Candlewood Drive	7/25/2013		< 0.50	< 0																		

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
L - LCS or LCSD exceeded the control limits. Results may be biased high.
* Proposed GW-1 Standard



Property	Date	Duplicate	Methyl tert-butyl ether	Methylene Chloride	m-Xylene and p-Xylene	Naphthalene	n-Butylbenzene	N-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	t-Butanol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Trihalomethanes	Vinyl chloride	Total Xylenes	
275 Meetinghouse Road	7/23/2013	Duplicate	0.26J	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
350 Meetinghouse Road	7/25/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
	7/25/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
370 Meetinghouse Road	4/30/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
375 Meetinghouse Road	8/2/2013		0.35J	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
385 Meetinghouse Road	7/24/2013		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0
400 Meetinghouse Road	7/24/2013	0.14J	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0J	< 0.50	< 1.0	
440 Meetinghouse Road	7/31/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
20 Molls Pond Road	2/19/2013	0.53	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	0.13J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
30 Molls Pond Road	2/15/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
50 Molls Pond Road	2/11/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
60 Molls Pond Road	2/11/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
55 Northwood Road	8/2/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
25 Old Orchard Road	5/6/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	0.10J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
45 Old Orchard Road	2/22/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
75 Old Orchard Road	2/21/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
80 Old Orchard Road	2/12/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
100 Old Orchard Road	2/12/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
130A Old Orchard Road	2/25/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
130B Old Orchard Road	2/25/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
180 Old Orchard Road	8/28/2013	0.19J	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
	6/27/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
	5/8/2013	0.25J	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
	2/22/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
210 Old Orchard Road	2/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
290 Old Orchard Road	5/16/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/9/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
	2/15/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
310 Old Orchard Road	4/29/2013	0.14J	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
350 Old Orchard Road	5/3/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
370 Old Orchard Road	5/2/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
390 Old Orchard Road	5/7/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
400 Old Orchard Road	5/7/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
50 Piper Lane	2/20/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
65 Piper Lane	7/31/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
4 Preservation Way	4/30/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
20 Redberry Lane	7/23/2013	0.14J	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
55 Redberry Lane	7/22/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
180 Schoolhouse Road	7/23/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
200 Schoolhouse Road	2/12/2013	0.55	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
210 Schoolhouse Road	5/6/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
230 Schoolhouse Road	5/8/2013	< 0.50	< 0.50	0.24J	< 0.50	< 0.50	< 0.50	< 0.50	0.063J	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	0.30J	
255 Schoolhouse Road	7/22/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
265 Schoolhouse Road	2/21/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
280 Schoolhouse Road	2/22/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
300 Schoolhouse Road	2/19/2013	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 1.0	
3																							

Notes:

- NS - Not Sampled
- J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- B - Analyte detected in Blank and Sample
- L - LCS or LCSD exceeded the control limits. Results may be biased high.
- * Proposed GW-1 Standard



TABLE 3
AFFECTED PROPERTIES ELIGIBLE TO RECEIVE BOTTLED WATER
FOLLOWING SAMPLING EVENT #3

50 Alston Avenue
225 Alston Avenue
255 Alston Avenue
275 Alston Avenue
285 Alston Avenue
11 Eldia Way
13 Eldia Way
25 Knowles Street
30 Knowles Street A
30 Knowles Street B
45 Knowles Street
100 Meetinghouse Road A
100 Meetinghouse Road B
155 Meetinghouse Road
165 Meetinghouse Road
171 Meetinghouse Road Rear
350 Meetinghouse Road
180 Old Orchard Road
310 Old Orchard Road
325 Schoolhouse Road
35 Sharon Circle
5 Starlight Lane
40 Starlight Lane
45 Starlight Lane

TABLE 4
SUMMARY OF
EASTHAM LANDFILL MONITORING PLAN REQUIREMENTS

Monitoring Type	RES #	Frequency	Schedule	VOCs & 1,4 Dioxane	Inorganics	Arsenic Only	Indicators	Methane, VOCs, O2 & H2S
Monitoring Wells								
MW-3I/3D		Quarterly	Feb/May/Aug/Nov	x	x		x	
MW-21S		Semi-Annually	May/Nov	x				
MW-2S, 4S & 5S		Annually	December	x	x		x	
MW-8, DPW Well		Annually	December	x				
Residential Wells								
285 Alston	RES-20	Quarterly	Feb/May/Aug/Nov	x		x		
100 Meetinghouse	RES-8	Quarterly	Feb/May/Aug/Nov	x		x		
180 Old Orchard	RES-1	Quarterly	Feb/May/Aug/Nov	x		x		
325 Schoolhouse	RES-30	Semi-Annually	May/Nov	x				
50 Alston	RES-35	Annually	February	x				
265 Alston	RES-18	Annually	February	x	x			
280 Alston	RES-16	Annually	February	x	x			
11 Eldia	RES-34	Annually	February	x				
25 Knowles	RES-36	Annually	February	x				
30 Knowles	RES-31	Annually	February	x				
45 Knowles	RES-32	Annually	February	x				
125 Meetinghouse	RES-7	Annually	February	x	x			
155 Meetinghouse	RES-6	Annually	February	x	x			
165 Meetinghouse	RES-4	Annually	February	x	x			
170 Meetinghouse	RES-33	Annually	February	x				
75 Old Orchard	RES-13	Annually	February	x	x			
130 Old Orchard	RES-9	Annually	February	x	x			
290 Old Orchard	RES-2	Annually	February	x	x			
210 Old Orchard	RES-3	Annually	February	x	x			
Landfill Gas Wells								
GMW-1, 2, 2A, 2B, 3 & 4		Semi-Annually	May/Nov					x

TABLE 5.1
SECTION 1
SUMMARY OF
ANALYTICAL RESULTS
Volatile Organic Compounds
Eastham Landfill Monitoring Wells and Private Drinking Wells
Eastham, MA
(All results in ug/l)

Property	LMP Sample Frequency	Date	1,4 Dioxane *	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dichlorobenzene
Standards																
ORSG			0.3	NA	NA	NA	NA	70	NA	NA	NA	NA	NA	NA	NA	NA
MMCL			NA	NA	200	NA	5	NA	7	NA	NA	NA	70	NA	0.2	600
GW1			0.3*	5	200	2	5	70	7	NA	NA	NA	70	NA	NA	600
Results																
DPW Non-potable Well	Annual	2/25/2013	<0.20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/7/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 21D		2/25/2013	< 50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
MW 21S	Semi-Annual	5/16/2013	< 50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0
		12/7/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 2D		2/14/2013	0.14 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 2S	Annual	2/14/2013	0.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		7/10/2012	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 3D	Quarterly	9/5/2013	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		5/8/2013	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		2/14/2013	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		12/6/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		10/9/2012	18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		7/10/2012	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		3/20/2012	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 3I	Quarterly	9/5/2013	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		5/8/2013	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		2/14/2013	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		2/14/2013	< 0.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		10/9/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		7/10/2012	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 3S		2/14/2013	< 0.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 4D		2/14/2013	< 0.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 4S	Annual	2/14/2013	1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		7/10/2012	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 5D		2/14/2013	< 0.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
* Proposed GW1 Standard



Property	LMP Sample Frequency	Date	1,4 Dioxane *	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dichlorobenzene
MW 5D		12/5/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 5S	Annual	2/14/2013	1.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/5/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		7/10/2012	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 8	Annual	3/14/2013	0.33	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/7/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
50 Alston Avenue	Annual	7/25/2013	0.18J	< 0.50	< 0.50	< 0.50	< 0.50	0.30J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013	0.18J	< 0.50	< 0.50	< 0.50	< 0.50	0.24J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	0.20	< 0.50	< 0.50	< 0.50	< 0.50	0.25J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/1/2013	0.18J	< 0.50	< 0.50	< 0.50	< 0.50	0.28J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		3/14/2013	0.20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/4/2013	0.23	< 0.50	< 0.50	< 0.50	< 0.50	0.25J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		3/4/2013	0.23	< 0.50	< 0.50	< 0.50	< 0.50	0.27J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/14/2013	5.1	< 0.50	< 0.50	< 0.50	< 0.50	0.24J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/14/2013	Duplicate	5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/7/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
265 Alston Avenue	Annual	3/14/2013	0.055J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012	NS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
275 Alston Avenue		5/16/2013	1.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/16/2013	Duplicate	0.99	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		12/6/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
280 Alston Avenue	Annual	2/22/2013	< 0.20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012	NS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
285 Alston Avenue	Quarterly	5/8/2013	0.35	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/22/2013	0.37	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/22/2013	Duplicate	0.33	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		12/6/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
11 Eldia Way	Annual	7/25/2013	3.0	< 0.50	< 0.50	< 0.50	< 0.50	0.19J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013	4.3	< 0.50	< 0.50	< 0.50	< 0.50	0.22J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013	Duplicate	3.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/29/2013	4.3	< 0.50	< 0.50	< 0.50	< 0.50	0.20J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	Duplicate	3.9B	< 0.50	< 0.50	< 0.50	0.20J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		4/29/2013	4.2	< 0.50	< 0.50	< 0.50	< 0.50	0.20J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		4/29/2013	Duplicate	3.3	< 0.50	< 0.50	< 0.50	0.19J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		3/14/2013	2.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/14/2013	Duplicate	3.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
25 Knowles Street	Annual	8/27/2013	3.2	< 0.50	< 0.50	< 0.50	< 0.50	0.24J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		7/25/2013	2.8	< 0.50	< 0.50	< 0.50	< 0.50	0.25J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013	2.8	< 0.50	< 0.50	< 0.50	< 0.50	0.21J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013	Duplicate	3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/29/2013	2.7	< 0.50	< 0.50	< 0.50	< 0.50	0.20J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	Duplicate	2.8B	< 0.50	< 0.50	< 0.50	0.21J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		4/26/2013	2.8	< 0.50	< 0.50	< 0.50	< 0.50	0.22J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		4/26/2013	Duplicate	2.6	< 0.50	< 0.50	< 0.50	0.21J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/21/2013	3.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
* Proposed GW1 Standard



Property	LMP Sample Frequency	Date		1,4 Dioxane *	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dichlorobenzene
25 Knowles Street	Annual	2/21/2013	Duplicate	2.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
30 Knowles Street	Annual	8/28/2013		5.6	< 0.50	< 0.50	< 0.50	< 0.50	0.32J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		7/30/2013		5.1	< 0.50	< 0.50	< 0.50	< 0.50	0.32J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		7/30/2013	Duplicate	5.1	< 0.50	< 0.50	< 0.50	< 0.50	0.32J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013		5.0	< 0.50	< 0.50	< 0.50	< 0.50	0.35J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013	Duplicate	5.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/29/2013		4.9	< 0.50	< 0.50	< 0.50	< 0.50	0.37J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	Duplicate	5.9B	< 0.50	< 0.50	< 0.50	< 0.50	0.36J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		4/29/2013		6.0	< 0.50	< 0.50	< 0.50	< 0.50	0.36J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		4/29/2013	Duplicate	5.2	< 0.50	< 0.50	< 0.50	< 0.50	0.36J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/19/2013		6.9	< 0.50	< 0.50	< 0.50	< 0.50	0.41J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/19/2013	Duplicate	6.4	< 0.50	< 0.50	< 0.50	< 0.50	0.40J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
45 Knowles Street	Annual	8/28/2013		2.0	< 0.50	< 0.50	< 0.50	< 0.50	0.19J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/1/2013		2.3	< 0.50	< 0.50	< 0.50	< 0.50	0.23J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/1/2013	Duplicate	2.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
100 Meetinghouse Road	Quarterly	8/27/2013		1.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/8/2013		1.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/8/2013	Duplicate	1.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2/14/2013		1.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/14/2013	Duplicate	1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012		<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		9/27/2012		NS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012		NS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		3/23/2012		NS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
125 Meetinghouse Road	Annual	5/8/2013		0.15J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/21/2012		NS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
155 Meetinghouse Road	Annual	7/31/2013		0.46	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		7/31/2013	Duplicate	0.35	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
165 Meetinghouse Road	Annual	2/15/2013		0.75	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2/15/2013	Duplicate	0.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012		<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
170 Meetinghouse Road	Annual	2/15/2013		< 0.20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/8/2012		<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
75 Old Orchard Road	Annual	2/21/2013		0.17J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012		<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012		NS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
80 Old Orchard Road		2/12/2013		< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		12/6/2012		<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
100 Old Orchard Road		2/12/2013		< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		12/6/2012		<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
130 Old Orchard Road	Annual	12/6/2012		<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012		NS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
130A Old Orchard Road	Annual	2/25/2013		< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
130B Old Orchard Road	Annual	2/25/2013		< 0.20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
180 Old Orchard Road	Quarterly	8/28/2013		0.46	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013		0.45	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Notes:

NS - Not Sampled

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

B - Analyte detected in Blank and Sample

* Proposed GW1 Standard



Property	LMP Sample Frequency	Date		1,4 Dioxane *	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dichlorobenzene
180 Old Orchard Road	Quarterly	5/8/2013		0.52	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/22/2013		0.045J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		12/6/2012		<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		9/27/2012		NS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012		NS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		3/23/2012		NS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
210 Old Orchard Road	Annual	2/15/2013		< 0.20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012		<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012		NS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
290 Old Orchard Road	Annual	5/16/2013		0.068J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/9/2013		NS	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/15/2013		< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/21/2012		NS	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
325 Schoolhouse Road	Semi-Annual	8/27/2013	Untreated	7.7	< 0.50	< 0.50	< 0.50	< 0.50	0.37J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		8/27/2013	Mid System	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		8/27/2013	Effluent	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		7/31/2013	Untreated	9.4	< 0.50	< 0.50	< 0.50	< 0.50	0.35J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		7/31/2013	Untreated	8.8	< 0.50	< 0.50	< 0.50	< 0.50	0.38J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		7/31/2013	Mid System	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		7/31/2013	Effluent	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013	Untreated	8.2	< 0.50	< 0.50	< 0.50	< 0.50	0.41J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013	Untreated	8.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		6/27/2013	Mid System	0.041J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013	Effluent	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	Untreated	7.8	< 0.50	< 0.50	< 0.50	< 0.50	0.44J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	Untreated	9.8B	< 0.50	< 0.50	< 0.50	< 0.50	0.41J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	Mid System	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	Effluent	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		4/29/2013	Untreated	9.8	< 0.50	< 0.50	< 0.50	< 0.50	0.36J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		4/29/2013	Untreated	8.3	< 0.50	< 0.50	< 0.50	< 0.50	0.37J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		4/29/2013	Mid System	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		4/29/2013	Effluent	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		3/21/2013	Mid System	< 0.20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/21/2013	Effluent	< 0.20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/14/2013	Mid System	< 0.20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/14/2013	Effluent	< 0.20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/8/2013	Mid System	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		3/8/2013	Effluent	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/25/2013	Mid System	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/25/2013	Effluent	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/22/2013	Untreated	10	< 0.50	< 0.50	< 0.50	< 0.50	0.49J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/22/2013	Untreated	9.7	< 0.50	< 0.50	< 0.50	< 0.50	0.49J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		12/7/2012	Untreated	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
* Proposed GW1 Standard



TABLE 5.1
SECTION 2
SUMMARY OF
ANALYTICAL RESULTS
Volatile Organic Compounds
Eastham Landfill Monitoring Wells and Private Drinking Wells
Eastham, MA
(All results in ug/l)

Property	LMP Sample Frequency	Date	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
Standards																		
ORSG			NA	NA	NA	NA	NA	NA	NA	4000	NA	NA	NA	350	6300	NA	NA	NA
MMCL			5	5	NA	NA	NA	5	NA	NA	NA	NA	NA	NA	NA	5	NA	NA
GW1			5	5	NA	40	NA	5	NA	4000	NA	NA	NA	350	6300	5	NA	NA
Results																		
DPW Non-potable Well	Annual	2/25/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/7/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 21D		2/25/2013	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1J *	< 1.0	< 1.0	< 1.0	< 10	14J	< 1.0	< 1.0	< 1.0
MW 21S	Semi-Annual	5/16/2013	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 10	< 50	< 1.0	< 1.0	< 1.0
		12/7/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 2D		2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5
MW 2S	Annual	2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5
		7/10/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5
MW 3D	Quarterly	9/5/2013	<0.5	<0.5	<0.5	<0.5	<0.5	0.50	<0.5	<5.0	<0.5	<0.5	<0.5	<5.0	<5.0	1.0	<0.5	<0.5
		5/8/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	0.91	<0.5	<0.5
		2/14/2013	<0.5	<0.5	<0.5	<0.5	<0.5	0.51	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	1.0	<0.5	<0.5
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5
		10/9/2012	<0.5	<0.5	<0.5	<0.5	<0.5	0.55	<0.5	<5.0	<0.5	<0.5	<0.5	<5.0	<5.0	1.2	<0.5	<0.5
		7/10/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5
		3/20/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5
MW 3I	Quarterly	9/5/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<5.0	<5.0	<0.5	<0.5	<0.5
		5/8/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5
		2/14/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5
		2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5
		10/9/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<5.0	<5.0	<0.5	<0.5	<0.5
		7/10/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5
MW 3S		2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5
MW 4D		2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5
MW 4S	Annual	2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5
		7/10/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5
MW 5D		2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/5/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5
MW 5S	Annual	2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/5/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5
		7/10/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5
MW 8	Annual	3/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/7/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
50 Alston Avenue		7/25/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	2.1J	< 0.50	< 0.50	< 0.50
		6/27/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
		5/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
		5/1/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
* Proposed GW1 Standard



Property	LMP Sample Frequency	Date	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
50 Alston Avenue		3/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/4/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	16	< 0.50	< 0.50	< 0.50	< 2.5	8.4	< 0.50	< 0.50	< 0.50
		3/4/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	16	< 0.50	< 0.50	< 0.50	< 2.5	7.5	< 0.50	< 0.50	< 0.50
		2/14/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	0.40J	< 0.50	< 0.50
		2/14/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
265 Alston Avenue		3/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
275 Alston Avenue		5/16/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.56J	< 0.50	< 0.50	< 0.50
		5/16/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.1J	< 0.50	< 0.50	< 0.50
280 Alston Avenue		2/22/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
285 Alston Avenue		5/8/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
		2/22/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
		2/22/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
25 Knowles Street		8/27/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.2J	< 0.50	< 0.50	< 0.50
		7/25/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.76J	< 0.50	< 0.50	< 0.50
		6/27/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.57J	< 0.50	< 0.50	< 0.50
		6/27/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
		5/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
		4/26/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
		4/26/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.65J	< 0.50	< 0.50	< 0.50
		2/21/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2/21/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
30 Knowles Street		8/28/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	0.28J	< 0.50	< 0.50
		7/30/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.4J	0.29J	< 0.50	< 0.50
		7/30/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.81J	0.29J	< 0.50	< 0.50
		6/27/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		6/27/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.90J	0.25J	< 0.50	< 0.50
		5/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.86J	0.31J	< 0.50	< 0.50
		5/29/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.0J	0.31J	< 0.50	< 0.50
		4/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	0.28J	< 0.50	< 0.50
		4/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.92J	0.31J	< 0.50	< 0.50
		2/19/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	0.34J	< 0.50	< 0.50
		2/19/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	0.34J	< 0.50	< 0.50
45 Knowles Street		8/28/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	0.18J	< 0.50	< 0.50
		5/1/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/1/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	0.23J	< 0.50	< 0.50
125 Meetinghouse Road		5/8/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
155 Meetinghouse Road		7/31/2013	Duplicate	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.62J	< 0.50	< 0.50	< 0.50
		7/31/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	1.3J	< 0.50	< 0.50	< 0.50
165 Meetinghouse Road		2/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2/15/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
170 Meetinghouse Road		2/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
75 Old Orchard Road		2/21/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
80 Old Orchard Road		2/12/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.70J	< 0.50	< 0.50	< 0.50
100 Old Orchard Road		2/12/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.80J	< 0.50	< 0.50	< 0.50
130A Old Orchard Road		2/25/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
130B Old Orchard Road		2/25/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
210 Old Orchard Road		2/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
290 Old Orchard Road		5/16/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/9/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
		2/15/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
50 Alston Avenue	Annual	12/7/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5			<0.5	<0.5	<0.5
265 Alston Avenue	Annual	12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5			<0.5	<0.5	<0.5
		6/21/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NS	<0.5	<0.5	<0.5	NS	NS	<0.5	<0.5	<0.5
275 Alston Avenue		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5			<0.5	<0.5	<0.5
280 Alston Avenue	Annual	12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5			<0.5	<0.5	<0.5

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
* Proposed GW1 Standard



Property	LMP Sample Frequency	Date		1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
325 Schoolhouse Road	Semi-Annual	3/21/2013	Effluent	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/14/2013	Mid System	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/14/2013	Effluent	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/8/2013	Mid System	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
		3/8/2013	Effluent	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	0.61J	< 0.50	< 0.50	< 0.50
		2/25/2013	Mid System	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
		2/25/2013	Effluent	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 0.50	< 0.50	< 0.50
		2/22/2013	Untreated	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	0.63	< 0.50	< 0.50
		2/22/2013	Untreated	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	0.66	< 0.50	< 0.50
		12/7/2012	Untreated	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
* Proposed GW1 Standard

TABLE 5.1
SECTION 3
SUMMARY OF
ANALYTICAL RESULTS
Volatile Organic Compounds
Eastham Landfill Monitoring Wells and Private Drinking Wells
Eastham, MA
(All results in ug/l)

Property	LMP Sample Frequency	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromomethane	Dichlorobromomethane	Dichlorodifluoromethane	Ethylbenzene
Standards																
ORSG			NA	10	NA	NA	NA	NA	70	NA	NA	NA	NA	NA	1400	NA
MMCL			NA	NA	5	100	NA	NA	NA	NA	70	NA	NA	NA	NA	700
GW1			4	10	5	100	2	NA	70	NA	70	NA	NA	3	NA	700
Results																
DPW Non-potable Well	Annual	2/25/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/7/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 21D	Semi-Annual	2/25/2013	< 1.0	< 2.0	< 1.0	< 1.0	< 0.50	< 2.0	< 1.0	< 2.0	< 1.0	< 0.40	< 1.0	< 0.50	< 1.0	< 1.0
MW 21S		5/16/2013	< 1.0	< 2.0	< 1.0	< 1.0	< 0.50	< 2.0	< 1.0	< 2.0	< 1.0	< 0.40	< 1.0	< 0.50	< 1.0	< 1.0
MW 2D		12/7/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW 2S	Annual	12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		7/10/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 3D	Quarterly	2/14/2013	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	<0.5
		5/8/2013	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	0.60	<0.5
		2/14/2013	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	0.51	<0.5
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		10/9/2012	<0.5	<0.5	<0.5	1.9	<0.5	0.58	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	<0.5
		7/10/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		3/20/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 3I	Quarterly	9/5/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		5/8/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		2/14/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.84	<0.5	<0.5	<0.5	<0.5	<0.5
		2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		10/9/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		7/10/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		3/20/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 3S		2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 4D		2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 4S	Annual	2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		7/10/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 5D		2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/5/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 5S	Annual	2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/5/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.51	<0.5	<0.5	<0.5	<0.5	<0.5
		7/10/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 8	Annual	3/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/7/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
50 Alston Avenue		7/25/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/1/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		3/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/4/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.37J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		3/4/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.33J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/14/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.24J	0.17J	< 0.50	0.74	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/14/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
* Proposed GW1 Standard



Property	LMP Sample Frequency	Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromomethane	Dichlorobromomethane	Dichlorodifluoromethane	Ethylbenzene
265 Alston Avenue		3/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
275 Alston Avenue		5/16/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.75	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/16/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.72	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
280 Alston Avenue		2/22/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
285 Alston Avenue		5/8/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.47J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/22/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.59	0.29J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/22/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.55	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
25 Knowles Street		8/27/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.14J	0.43J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		7/25/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.43J	0.078J	2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.15J	0.36J	< 0.50	1.6	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.15J	0.38J	< 0.50	1.7	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.19J	0.37J	< 0.50	1.7	< 0.50	< 0.50	< 0.50	< 0.50
		4/26/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.34J	< 0.50	1.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		4/26/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.39J	< 0.50	1.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/21/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2/21/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
30 Knowles Street		8/28/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.28J	0.19J	< 0.50	1.4	< 0.50	< 0.50	< 0.50	< 0.50
		7/30/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.27J	0.18J	< 0.50	1.5	< 0.50	< 0.50	< 0.50	< 0.50
		7/30/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.26J	0.18J	< 0.50	1.5	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		6/27/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.32J	0.20J	0.16J	1.6	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.44J	0.21J	< 0.50	1.8	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.43J	0.20J	< 0.50	1.8	< 0.50	< 0.50	< 0.50	< 0.50
		4/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.34J	0.18J	< 0.50	1.7	< 0.50	< 0.50	< 0.50	< 0.50
		4/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20J	0.080J	1.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/19/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.35J	0.21J	< 0.50	1.9	< 0.50	< 0.50	< 0.50	< 0.50
		2/19/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40J	0.21J	0.17J	1.9	< 0.50	< 0.50	< 0.50	< 0.50
45 Knowles Street		8/28/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.16J	0.18J	< 0.50	0.91	< 0.50	< 0.50	< 0.50	< 0.50
		5/1/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/1/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	< 0.50	< 0.50	< 0.50	< 0.50
125 Meetinghouse Road		5/8/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
155 Meetinghouse Road		7/31/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		7/31/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
165 Meetinghouse Road		2/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
170 Meetinghouse Road		2/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
75 Old Orchard Road		2/21/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
80 Old Orchard Road		2/12/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
100 Old Orchard Road		2/12/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
130A Old Orchard Road		2/25/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.13J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
130B Old Orchard Road		2/25/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
210 Old Orchard Road		2/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
290 Old Orchard Road		5/16/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/9/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.25J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/15/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.38J	0.099J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
50 Alston Avenue	Annual	12/7/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
265 Alston Avenue	Annual	12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
275 Alston Avenue		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
280 Alston Avenue	Annual	12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
285 Alston Avenue	Quarterly	12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
11 Eldia Way	Annual	7/25/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.84	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		6/27/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.27J	< 0.50	< 0.50	0.86	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.32J	< 0.50	< 0.50	0.79	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.36J	< 0.50	< 0.50	0.85	< 0.50	< 0.50	< 0.50	< 0.50
		4/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30J	< 0.50	< 0.50	0.89	< 0.50	< 0.50	< 0.50	< 0.50
		4/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.78	< 0.50	< 0.50	< 0.50	< 0.50
		3/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
* Proposed GW1 Standard



Property	LMP Sample Frequency	Date		Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromomethane	Dichlorobromomethane	Dichlorodifluoromethane	Ethylbenzene
100 Meetinghouse Road	Quarterly	8/27/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.39J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/8/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.46J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/8/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2/14/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.42J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/14/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		9/27/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		3/23/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
125 Meetinghouse Road	Annual	6/21/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
165 Meetinghouse Road	Annual	12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
170 Meetinghouse Road	Annual	12/8/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
75 Old Orchard Road	Annual	12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
80 Old Orchard Road		12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
100 Old Orchard Road		12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
130 Old Orchard	Annual	12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
180 Old Orchard Road	Quarterly	8/28/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.51	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.35J	< 0.50	0.13J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/8/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.54	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/22/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.28J	0.063J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		9/27/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		3/23/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
210 Old Orchard Road	Annual	12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
290 Old Orchard Road	Annual	6/21/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
325 Schoolhouse Road	Semi-Annual	8/27/2013	Untreated	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.59	< 0.50	< 0.50	2.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		8/27/2013	Mid System	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		8/27/2013	Effluent	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		7/31/2013	Untreated	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.51	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		7/31/2013	Untreated	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.49J	< 0.50	0.11J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		7/31/2013	Mid System	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.084J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		7/31/2013	Effluent	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013	Untreated	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		6/27/2013	Untreated	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.52	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013	Mid System	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		6/27/2013	Effluent	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	Untreated	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.64	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	Untreated	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.51	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	Mid System	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		5/29/2013	Effluent	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		4/29/2013	Untreated	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		4/29/2013	Untreated	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.51	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		4/29/2013	Mid System	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		4/29/2013	Effluent	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		3/21/2013	Mid System	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/21/2013	Effluent	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/14/2013	Mid System	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/14/2013	Effluent	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/8/2013	Mid System	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		3/8/2013	Effluent	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/25/2013	Mid System	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.23J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/25/2013	Effluent	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/22/2013	Untreated	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.59	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2/22/2013	Untreated	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.63	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		12/7/2012	Untreated	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
* Proposed GW1 Standard



TABLE 5.1
SECTION 4
SUMMARY OF
ANALYTICAL RESULTS
Volatile Organic Compounds

Eastham Landfill Monitoring Wells and Private Drinking Wells
Eastham, MA
(All results in ug/l)

Property	LMP Sample Frequency	Date	Hexachlorobutadiene	Isopropylbenzene	Methyl tert-butyl ether	Methylene Chloride	Naphthalene	n-Butylbenzene	N-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Total Xylenes
Standards																				
ORSG			NA	NA	70	NA	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MMCL			NA	NA	NA	5	NA	NA	NA	NA	100	NA	5	1000	100	NA	5	NA	2	10000
GW1			0.6	NA	70	5	140	NA	NA	NA	100	NA	5	1000	100	NA	5	NA	2	10000
Results																				
DPW Non-potable Well	Annual	2/25/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/7/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 21D		2/25/2013	< 0.40	< 1.0	0.20J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.40	< 1.0	< 1.0	< 0.50	< 2.0
MW 21S	Semi-Annual	5/16/2013	< 0.40	< 1.0	0.16J	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.40	< 1.0	< 1.0	< 1.0	< 2.0
		12/7/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 2D		2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 2S	Annual	2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		7/10/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 3D	Quarterly	9/5/2013	<0.5	<0.5	0.95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		5/8/2013	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		2/14/2013	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		10/9/2012	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.58	<0.5
		7/10/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		3/20/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 3I	Quarterly	9/5/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		5/8/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		2/14/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		10/9/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		7/10/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 3S		2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 4D		2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 4S	Annual	2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		7/10/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 5D		2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/5/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 5S	Annual	2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/5/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		7/10/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW 8	Annual	3/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/7/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
50 Alston Avenue		7/25/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		6/27/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		5/29/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
* Proposed GW1 Standard



Property	LMP Sample Frequency	Date	Hexachlorobutadiene	Isopropylbenzene	Methyl tert-butyl ether	Methylene Chloride	Naphthalene	n-Butylbenzene	N-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Total Xylenes
50 Alston Avenue		5/1/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.14J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		3/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/4/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		3/4/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		2/14/2013	< 0.50	< 0.50	0.84	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		2/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
265 Alston Avenue		3/14/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
275 Alston Avenue		5/16/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		5/16/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
280 Alston Avenue		2/22/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
285 Alston Avenue		5/8/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		2/22/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		2/22/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
25 Knowles Street		8/27/2013	< 0.50	< 0.50	0.35J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.081J	< 1.0
		7/25/2013	< 0.50	< 0.50	0.33J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.083J	< 1.0
		6/27/2013	< 0.50	< 0.50	0.27J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		6/27/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/29/2013	< 0.50	< 0.50	0.25J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		5/29/2013	< 0.50	< 0.50	0.25J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		4/26/2013	< 0.50	< 0.50	0.27J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.066J	< 1.0
		4/26/2013	< 0.50	< 0.50	0.23J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		2/21/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2/21/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
30 Knowles Street		8/28/2013	< 0.50	< 0.50	0.76	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.14J	< 1.0
		7/30/2013	< 0.50	< 0.50	0.77	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		7/30/2013	< 0.50	< 0.50	0.74	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		6/27/2013	< 0.50	< 0.50	0.76	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.15J	< 1.0
		6/27/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/29/2013	< 0.50	< 0.50	0.79	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		5/29/2013	< 0.50	< 0.50	0.81	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		4/29/2013	< 0.50	< 0.50	0.85	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.18J	< 1.0
		4/29/2013	< 0.50	< 0.50	0.85	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		2/19/2013	< 0.50	< 0.50	1.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.19J	< 1.0
		2/19/2013	< 0.50	< 0.50	1.1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.16J	< 1.0
45 Knowles Street		8/28/2013	< 0.50	< 0.50	0.32J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.13J	< 1.0
		5/1/2013	< 0.50	< 0.50	0.45J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.19J	< 1.0
		5/1/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
125 Meetinghouse Road		5/8/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
155 Meetinghouse Road		7/31/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		7/31/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
165 Meetinghouse Road		2/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
170 Meetinghouse Road		2/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
75 Old Orchard Road		2/21/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
80 Old Orchard Road		2/12/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
100 Old Orchard Road		2/12/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
130A Old Orchard Road		2/25/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
130B Old Orchard Road		2/25/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
210 Old Orchard Road		2/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
290 Old Orchard Road		5/16/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/9/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		2/15/2013	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
50 Alston Avenue	Annual	12/7/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
265 Alston Avenue	Annual	12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
275 Alston Avenue		12/6/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
* Proposed GW1 Standard



Property	LMP Sample Frequency	Date		Hexachlorobutadiene	Isopropylbenzene	Methyl tert-butyl ether	Methylene Chloride	Naphthalene	Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Total Xylenes	
280 Alston Avenue	Annual	12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
		6/21/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
285 Alston Avenue	Quarterly	12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
11 Eldia Way	Annual	7/25/2013		< 0.50	< 0.50	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	
		6/27/2013		< 0.50	< 0.50	1.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.24J	< 1.0	
		6/27/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
		5/29/2013		< 0.50	< 0.50	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.23J	< 1.0
		5/29/2013	Duplicate	< 0.50	< 0.50	1.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.24J	< 1.0
		4/29/2013		< 0.50	< 0.50	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.22J	< 1.0
		4/29/2013	Duplicate	< 0.50	< 0.50	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.23J	< 1.0
		3/14/2013		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/14/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
100 Meetinghouse Road	Quarterly	8/27/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	
		5/8/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	
		5/8/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2/14/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	
		2/14/2013	Duplicate	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		9/27/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		3/23/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
125 Meetinghouse Road	Annual	6/21/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
165 Meetinghouse Road	Annual	12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
170 Meetinghouse Road	Annual	12/8/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
75 Old Orchard Road	Annual	12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
80 Old Orchard Road		12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
100 Old Orchard Road		12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
130 Old Orchard	Annual	12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
180 Old Orchard Road	Quarterly	8/28/2013		< 0.50	< 0.50	0.19J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0
		6/27/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0
		5/8/2013		< 0.50	< 0.50	0.25J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0
		2/22/2013		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0
		12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		9/27/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		3/23/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
210 Old Orchard Road	Annual	12/6/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		6/21/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
290 Old Orchard Road	Annual	6/21/2012		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
325 Schoolhouse Road	Semi-Annual	8/27/2013	Untreated	< 0.50	< 0.50	1.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.21J	< 1.0
		8/27/2013	Mid System	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		8/27/2013	Effluent	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		7/31/2013	Untreated	< 0.50	< 0.50	1.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.22J	< 1.0
		7/31/2013	Untreated	< 0.50	< 0.50	1.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.22J	< 1.0
		7/31/2013	Mid System	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		7/31/2013	Effluent	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		6/27/2013	Untreated	< 0.50	< 0.50	1.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.26J	< 1.0
		6/27/2013	Untreated	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		6/27/2013	Mid System	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		6/27/2013	Effluent	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		5/29/2013	Untreated	< 0.50	< 0.50	1.6	< 0.50	< 0.50	< 0.50													

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample
* Proposed GW1 Standard



Property	LMP Sample Frequency	Date		Hexachlorobutadiene	Isopropylbenzene	Methyl tert-butyl ether	Methylene Chloride	Naphthalene	n-Butylbenzene	N-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Total Xylenes
325 Schoolhouse Road	Semi-Annual	3/21/2013	Mid System	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/21/2013	Effluent	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/14/2013	Mid System	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/14/2013	Effluent	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3/8/2013	Mid System	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		3/8/2013	Effluent	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		2/25/2013	Mid System	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		2/25/2013	Effluent	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
		2/22/2013	Untreated	< 0.50	0.053J	1.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30J	< 1.0
		2/22/2013	Untreated	Duplicate	< 0.50	< 0.50	1.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.27J	< 1.0
		12/7/2012	Untreated		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Notes:

NS - Not Sampled

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

B - Analyte detected in Blank and Sample

* Proposed GW1 Standard



TABLE 5.2
SUMMARY OF
GROUNDWATER ANALYTICAL RESULTS
Metals
Eastham Landfill
Eastham, MA
(All results in ug/l)

Property	Sample Frequency	Date	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc
Standards														
GW-1			10	2000	5	100	NA	NA	15	NA	2	50	100	5000
MMCL			10	2000	5	100	NA	NA	15	NA	2	50	NA	NA
SMCL			NA	NA	NA	NA	1000	300	NA	50	NA	NA	100	5000
Results														
MW 2D		12/6/2012	<3	3.2	<3	<3	<3	<100	<3	51	<0.5	<15	<2	<60
MW 2S	Annual	12/6/2012	<3	13	<3	<3	<3	680	<3	430	<0.5	<15	<2	<60
		7/10/2012	<3	13	<3	<3	<3	580	<3	390	<0.5	<15	<2	<100
MW 3D	Quarterly	9/5/2013	64	89	<3	4.7	<3	36000	<3	1300	<0.3	<15	<3	<60
		5/8/2013	74	96	<3	6.3	<3	40000	<3	1300	<0.5	<15	<3	<60
		2/14/2013	68	96	<3	5.9	<3	40000	<3	1700	<0.5	<15	<2	<60
		12/6/2012	62	97	<3	<3	<3	40000	<3	1800	<0.5	<15	<2	<60
		10/9/2012	65	90	<3	3	<3	39000	<3	1400	<0.5	<15	<2	<100
		7/10/2012	66	99	<3	<3	<3	38000	<3	1400	<0.5	<15	<2	<100
		3/20/2012	69	100	<3	<3	<3	40000	<3	1700	<0.5	<15	<2	<60
MW 3I	Quarterly	9/5/2013	38	10	<3	<3	<3	68000	<3	1100	<0.3	<15	<3	<60
		5/8/2013	37	9	<3	<3	<3	64000	<3	980	<0.5	<15	<3	<60
		2/14/2013	41	12	<3	<3	<3	69000	<3	1100	<0.5	<15	<2	<60
		12/6/2012	39	11	<3	<3	<3	72000	<3	1100	<0.5	<15	<2	<60
		10/9/2012	40	11	<3	<3	<3	65000	<3	1000	<0.5	<15	<2	<100
		7/10/2012	42	<3	<3	<3	<3	68000	<3	1100	<0.5	<15	<2	<100
		3/20/2012	44	11	<3	<3	<3	65000	<3	1400	<0.5	<15	<2	<60
MW 3S		12/6/2012	<3	30	<3	<3	<3	250	<3	280	<0.5	<15	<2	<60
MW 4D		12/6/2012	<3	28	<3	<3	<3	<100	<3	160	<0.5	<15	<2	<60
MW 4S	Annual	12/6/2012	3.4	28	<3	<3	<3	2400	<3	5100	<0.5	<15	<2	<60
		7/10/2012	<3	31	<3	<3	<3	2400	<3	4400	<0.5	<15	<2	<100
MW 5D		12/5/2012	<3	64	<3	<3	<3	<150	<3	51	<0.5	<15	<2	<60
MW 5S	Annual	12/5/2012	<3	44	<3	<3	<3	5500	<3	3600	<0.5	<15	<2	<60
		7/10/2012	<3	47	<3	<3	<3	8500	<3	3200	<0.5	<15	<2	<100
265 Alston Avenue	Annual	12/6/2012	<3	13	<3	<3	27	NS	3.3	NS	<0.5	<15	<3	<60
		6/21/2012	<10	10	<1	<2	<100	<100	<6	<100	<0.5	<6	<2	<100
280 Alston Avenue	Annual	12/6/2012	<3	19	<3	<3	1300	NS	5.1	NS	<0.5	<15	<3	350
		6/21/2012	<10	14	<1	<2	<100	<100	<6	<100	<0.5	<6	<2	<100
285 Alston Avenue	Quarterly	5/8/2013	<3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample

Property	Sample Frequency	Date	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc
285 Alston Avenue	Quarterly	2/22/2013	<3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
100 Meetinghouse Road	Quarterly	8/27/2013	<3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/8/2013	<3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2/14/2013	<3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		9/27/2012	<3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		6/21/2012	<10	25	<1	<2	<100	<100	<6	<100	<0.5	<6	<2	<100
		3/23/2012	<3	27	<3	<3	38	<100	<3	76	<0.5	<15	<2	<60
125 Meetinghouse Road	Annual	5/8/2013	<3	42	<3	<3	25	NS	<3	NS	<0.3	<15	<3	<60
		6/21/2012	<10	42	<1	<2	<100	<100	<6	430	<0.5	<6	<2	<100
155 Meetinghouse Road	Annual	8/15/2013	<3	25	<3	<3	47	NS	<3	NS	<0.3	<15	<3	<60
		7/31/2013	<3	25	<3	<3	97	NS	17	NS	<0.3	<15	<3	76
165 Meetinghouse Road	Annual	12/6/2012	<3	92	<3	<3	17	NS	<3	NS	<0.5	<15	<3	<60
75 Old Orchard Road	Annual	12/6/2012	<3	9	<3	<3	79	NS	<3	NS	<0.5	<15	<3	<60
		6/21/2012	<10	6	<1	<2	<100	<100	<6	<100	<0.5	<6	<2	<100
130 Old Orchard Road		12/6/2012	<3	16	<3	<3	18	NS	<3	NS	<0.5	<15	<3	<60
		6/21/2012	<10	12	<1	<2	<100	<100	<6	<100	<0.5	<6	<2	<100
180 Old Orchard Road	Quarterly	8/28/2013	<3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		5/8/2013	<3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2/22/2013	<3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		12/6/2012	<3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		9/27/2012	<3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		6/21/2012	<10	14	<1	<2	<100	<100	<6	<100	<0.5	<6	<2	<100
		3/23/2012	<3	12	<3	<3	40	<100	<3	4.2	<0.5	<15	<2	<60
210 Old Orchard Road	Annual	12/6/2012	<3	55	<3	<3	18	NS	<3	NS	<0.5	<15	<3	<60
		6/21/2012	<10	54	<1	<2	<100	<100	<6	540	<0.5	<6	<2	<100
290 Old Orchard Road	Annual	6/21/2012	<10	25	<1	<2	160	<100	<6	<100	<0.5	<6	<2	<100

Notes: NS - Not Sampled
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Analyte detected in Blank and Sample

9/23/2013 Page 2 of 2
Report: GW Metals
Database: Eastham Landfill Monitoring



TABLE 5.3
SUMMARY OF
GROUNDWATER ANALYTICAL RESULTS
Inorganic Indicator Parameters
Eastham Landfill
Eastham, MA

Property	Sample Frequency	Date	Alkalinity mg/L as CaCO	Chloride mg/L	COD mg/L	Total Cyanide mg/L	Nitrate mg/L	Sulfate mg/L	Total Dissolved Solids mg/L
Standards									
MMCL						0.2	10		
SMCL				250				250	500
Results									
MW 2D	Annual	12/6/2012	23	22	<3.0	NS	0.6	6.7	81
MW 2S		12/6/2012	150	27	<3.0	NS	0.45	40	280
MW 3D	Quarterly	7/10/2012	150	28	10	<0.01	0.27	36	300
		9/5/2013	870	96	56	<0.010	<0.10	66	2,500
		5/8/2013	870	100	63	<0.01	0.87	68	1,400
		2/14/2013	920	120	70	<0.01	<0.1	68	1,600
		12/6/2012	960	91	63	NS	1.4	73	1,700
		10/9/2012	960	130	5.8	<0.01	6.2	70	1,500
		7/10/2012	970	100	71	<0.01	0.72	67	1,700
		3/20/2012	1,000	240	62	<0.01	1.7	68	1,500
MW 3I		9/5/2013	190	12	13	<0.010	<0.10	39	240
		5/8/2013	160	13	7	<0.01	0.32	49	260
		2/14/2013	180	14	15	<0.01	0.14	70	250
		12/6/2012	190	10	17	NS	0.35	81	290
		10/9/2012	180	12	<3.0	<0.01	<0.1	79	270
		7/10/2012	180	19	18	<0.01	0.19	66	320
		3/20/2012	180	19	15	<0.01	0.42	63	290
		MW 3S		12/6/2012	16	10	<3.0	NS	3
MW 4D	Annual	12/6/2012	16	50	<3.0	NS	2.3	18	140
MW 4S		12/6/2012	180	21	14	NS	<0.1	22	240
MW 5D	Annual	7/10/2012	180	26	13	<0.01	0.18	20	300
		12/5/2012	23	77	<3.0	NS	2.3	25	230
MW 5S		12/5/2012	200	34	8	NS	0.45	29	320
		7/10/2012	220	33	12	<0.01	0.28	29	380
265 Alston Avenue		6/21/2012	8.6	27	<3.0	<0.01	2.2	16	100
280 Alston Avenue		6/21/2012	23	66	<3.0	<0.01	2.7	7.3	200

Notes:

Property	Sample Frequency	Date	Alkalinity mg/L as CaCO	Chloride mg/L	COD mg/L	Total Cyanide mg/L	Nitrate mg/L	Sulfate mg/L	Total Dissolved Solids mg/L
100 Meetinghouse Road	Quarterly	6/21/2012	61	43	<3.0	<0.01	0.2	18	180
		3/23/2012	NS	45	4.7	<0.01	0.23	19	150
125 Meetinghouse Road	Annual	6/21/2012	80	21	<3.0	<0.01	0.9	23	160
75 Old Orchard Road		6/21/2012	26	25	<3.0	<0.01	1	7.8	96
130 Old Orchard		6/21/2012	37	69	<3.0	<0.01	3.5	8.6	220
180 Old Orchard Road	Quarterly	6/21/2012	11	32	<3.0	<0.01	2	14	120
		3/23/2012	NS	35	<3.0	<0.01	2	16	100
210 Old Orchard Road	Annual	6/21/2012	42	42	<3.0	<0.01	2.4	23	170
290 Old Orchard Road		6/21/2012	17	32	<3.0	<0.01	3.3	14	130

Notes:

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Brewster, MA 02631

BENNETT ENVIRONMENTAL ASSOCIATES, INC.
LICENSED SITE PROFESSIONALS, ENVIRONMENTAL SCIENTISTS, GEOLOGISTS, SANITARIANS

(508) 896-1706
fax (508) 896-5109

PRIVATE WELL SAMPLING LOG

Job Name: Eastham Landfill Date(s): 6/27/13 Time:
Location: Various Job Number: BEA09-10104
Sampler: JTW Measuring Point: Ground Surface or T.O.C.

Well Number	Total Depth of Well (feet)	Depth to Water (feet)	Production horizon	Volume Purged (gallons)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:
RES-35					5.91	0.65	111	53	50 Alston, 9:20 am
RES-31					6.23	0.64	239	51	30 Knowles, 10:40 am
RES-36					6.07	0.72	194	52	25 Knowles, 11:40 am
RES-30					6.33	0.58	313	51	325 Schoolhouse, 12:45 pm - 1:15 pm
RES-1					6.16	2.07	132	53	180 Old Orchard, 2:20 pm
RES-34					6.42	0.49	310	54	11 Eldia, 3:30 pm

Notes:

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PRIVATE WELL SAMPLING LOG

Job Name: Eastham Landfill Date(s): 7/22/13 Time:
Location: Various Job Number: BEA09-10104
Sampler: JTW Measuring Point: Ground Surface or T.O.C.

Well Number	Total Depth of Well (feet)	Depth to Water (feet)	Production horizon	Volume Purged (gallons)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:
					6.41	9.17	109	52	255 Schoolhouse, 9:40 am
					6.56	11.21	103	52	115 Fairview, 10:25 am
					6.67	9.90	107	53	65 Surrey, 11:10 am
					6.57	6.27	101	51	55 Redberry, 11:55 am
					6.56	11.74	128	52	30 Deerfield, 12:35 pm
					6.48	1.21	144	52	115 Alston, 1:30 pm
					6.60	9.19	102	53	70 Glacier Hills, 2:10 pm

Notes:

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fax (508) 896-5109

PRIVATE WELL SAMPLING LOG

Job Name: Eastham Landfill Date(s): 7/23/13 Time:
Location: Various Job Number: BEA09-10104
Sampler: JTW Measuring Point: Ground Surface or T.O.C.

Well Number	Total Depth of Well (feet)	Depth to Water (feet)	Production horizon	Volume Purged (gallons)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:
					6.41	8.00	92	53	Atlantic Oaks Campground, 9:50 am
					6.43	8.07	139	52	180 Schoolhouse, 10:40 am
					6.39	10.51	144	52	20 Redberry, 11:25 am
					6.23	3.72	147	53	40 Starlight, 12:30 pm
					6.17	9.02	151	52	275 Meetinghouse, 1:20 pm
					6.27	5.09	115	52	130 Glacier Hills, 2:15 pm
					6.08	10.79	163	52	65 Knowles, 3:10 pm

Notes:

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fax (508) 896-5109

PRIVATE WELL SAMPLING LOG

Job Name: Eastham Landfill Date(s): 7/24/13 Time:
Location: Various Job Number: BEA09-10104
Sampler: JTW Measuring Point: Ground Surface or T.O.C.

Well Number	Total Depth of Well (feet)	Depth to Water (feet)	Production horizon	Volume Purged (gallons)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:
					6.38	7.16	253	53	13 Eldia Way, 9:50 am
					6.40	13.00	94	52	385 Meetinghouse, 10:50 am
					6.09	16.67	112	52	40 Deepwood, 11:45 am
					6.09	12.04	243	54	4 Whidah, 12:40 pm
					5.63	22.71	93	52	45 Deepwood, 1:25 pm
					5.82	18.77	105	52	150 Glacier Hills, 2:30 pm
					5.85	13.72	104	52	400 Meetinghouse, 3:25 pm

Notes:

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fax (508) 896-5109

PRIVATE WELL SAMPLING LOG

Job Name: Eastham Landfill Date(s): 7/25/13 Time:
Location: Various Job Number: BEA09-10104
Sampler: JTW, LM Measuring Point: Ground Surface or T.O.C.

Well Number	Total Depth of Well (feet)	Depth to Water (feet)	Production horizon	Volume Purged (gallons)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:
					5.87	0.77	108	53	55 Candlewood, 9:45 am
					5.84	12.44	108	52	75 Deerfield, 10:35 am
					6.07	0.48	149	55	50 Alston, 11:30 am
					4.85	8.89	162	55	55 Deepwood, 12:10 pm
					6.23	0.60	524	54	11 Eldia, 1:05 pm
					6.05	5.02	284	54	350 Meetinghouse, 2:05 pm
					5.67	7.38	124	58	Atlantic Oaks "H" well, 2:55 pm
					6.11	3.66	128	53	Atlantic Oaks north well, 3:35 pm
					4.81	11.28	131	11.75 C	170 Candlewood, 10:03 am
					5.21	8.56	177	11.77 C	20 Chipman, 10:48 am
					5.36	9.65	81	12.16 C	230 Glacier Hills, 11:29 am
					5.59	10.49	103	12.25 C	310 Glacier Hills, 12:10 pm
					5.42	0.17	336	12.59 C	25 Knowles, 12:55 pm

Notes:

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PRIVATE WELL SAMPLING LOG

Job Name: Eastham Landfill Date(s): 7/30/13 Time:
Location: Various Job Number: BEA09-10104
Sampler: JTW Measuring Point: Ground Surface or T.O.C.

Well Number	Total Depth of Well (feet)	Depth to Water (feet)	Production horizon	Volume Purged (gallons)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:
					5.77	9.62	144	54	25 Deepwood, 9:50 am
					5.78	4.27	200	55	5 Whidah, 10:40 am
					5.45	11.58	131	54	75 Deepwood, 11:35 am
					5.83	14.58	153	54	65 Deepwood, 12:55 pm
					5.99	11.11	137	53	70 Deepwood, 1:55 pm
RES-31					6.12	0.38	489	53	30 Knowles, 2:55 pm

Notes:

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fax (508) 896-5109

PRIVATE WELL SAMPLING LOG

Job Name: Eastham Landfill Date(s): 7/31/13 Time:
Location: Various Job Number: BEA09-10104
Sampler: JTW Measuring Point: Ground Surface or T.O.C.

Well Number	Total Depth of Well (feet)	Depth to Water (feet)	Production horizon	Volume Purged (gallons)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:
					5.34	5.69	149	52	40 Chipman, 9:55 am
					5.85	0.27	182	54	50 Starlight, 11:15 am
					5.78	10.56	170	53	440 Meetinghouse, 11:55 am
					5.73	0.27	177	55	235 Alston, 1:05 pm
RES-6					5.84	7.11	189	55	155 Meetinghouse, 1:50 pm
RES-30					6.31	0.34	667	52	325 Schoolhouse, 2:55/3:05/3:15 pm
					5.67	9.23	98	54	30 Deepwood, 3:55 pm
					5.96	8.21	132	13.72 C	300 Glacier Hills, 12:35 pm
					6.07	7.68	153	12.64 C	35 Surrey, 1:30 pm
					5.32	0.53	118	14.25 C	65 Piper, 10:30 am
					5.14	6.60	258	12.16 C	3 Sharon, 11:10 am
					5.55	10.22	103	12.91 C	200 Glacier Hills, 11:50 am

Notes:

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fax (508) 896-5109

PRIVATE WELL SAMPLING LOG

Job Name: Eastham Landfill Date(s): 8/2/13 Time:
Location: Various Job Number: BEA09-10104
Sampler: JTW Measuring Point: Ground Surface or T.O.C.

Well Number	Total Depth of Well (feet)	Depth to Water (feet)	Production horizon	Volume Purged (gallons)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:
					5.51	7.62	142	53	180 Glacier Hills, 9:45 am
					5.90	8.87	140	53	375 Meetinghouse, 10:45 am
					5.95	8.99	146	58	55 Northwood, 11:55 am
					5.71	6.83	190	55	2 Eldia, 12:45 pm
					5.90	2.76	128	56	350 Schoolhouse, 1:30 pm

Notes:



Site Visit Form

PROJECT Eastham Landfill DATE 8/27/13

PERSONNEL EC, DB OTHER PERSONNEL Jane Crowley

ARRIVAL TIME 0830 DEPARTURE TIME 1530

WEATHER CONDITIONS 70's, cloudy/showers, 0-5 mph

Check all that apply for this site visit:

☒ Samples taken (include location description and copy of COC)

☒ Rental equipment used (include rental form for ES&M rentals)

☐ Materials purchased

Description of activities and observations:

Arrive onsite, meet w/ Jane Crowley @ Town Hall. Tailgate safety review.
Collect samples from 25 Knowles, 355 Alston, 100 Meetinghouse, 325 Schoolhouse, 80 Alston. See individual property folders for details.
At all homes, purge at least 20 gallons before sampling, take notes/photos.
Meet w/ engineer from Irwin @ 325 Schoolhouse. He collected some duplicate samples.
Properly preserve all samples on ice.
Clean and depart.

Work Completed By: _____

Site Visit Form

PROJECT Eastham Landfill DATE 8/28/13

PERSONNEL EC, DB OTHER PERSONNEL _____

ARRIVAL TIME 0745 DEPARTURE TIME 1200

WEATHER CONDITIONS 70's, cloudy, 0-5 mph wind

Check all that apply for this site visit:

- ☒ Samples taken (include location description and copy of COC)
- ☒ Rental equipment used (include rental form for ES&M rentals)
- ☐ Materials purchased

Description of activities and observations:

Arrive onsite, tailgate safety review
Collect samples from 30 Knowles, 45 Knowles, 180 Old Orchard.
See individual property folders for details.
Attempt to contact homeowners or property managers for 50 Alston and 285 Alston, but could not reach anyone.
No samples collected from 50 Alston, 285 Alston, or 11 Etalia.
DB delivered Arsenic samples from 100 Meetinghouse + 180 Old Orchard to Barnstable County laboratory.
EC returned samples to office for pick up by Test America.
Photos uploaded on server

Work Completed By: _____

Eastham Landfill
Private Well Sampling Log

Date: 8/27/13
Sampler: EC
Weather Conditions: clouds/light rain, 0-5 mph
Temperature: 70's

Location: 255 Alston Avenue
Property Owner: Nancy & Paul Underhill
Property Contact: same
Phone: 508-255-6235
Email: none provided

Contact Log Attached: Yes: X No: _____

Analysis Required: VOC (524.2) and 1,4-Dioxane (522.1, with RL of 0.2 ug/l)

Analytical Lab: TestAmerica

Sample Location: Basement pressure tank, before filter

Describe water system: Well-X-trol by Amtrol pressure tank, then into

including treatment: Kleen Plus by Universal Water Systems filter - sample pre-filter

Water meter reading: _____

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 1050 Finish: 1110

Time	pH	DO	Conductivity	Temperature
1055	6.77	8.86	0.346	16.42
1100	6.18	4.76	0.341	15.65
1105	6.08	6.50	0.342	13.68
1110	6.11	6.20	0.340	13.81

Volume Purged: 40 gallons 2 gal/min

Equipment Utilized: YSI 600

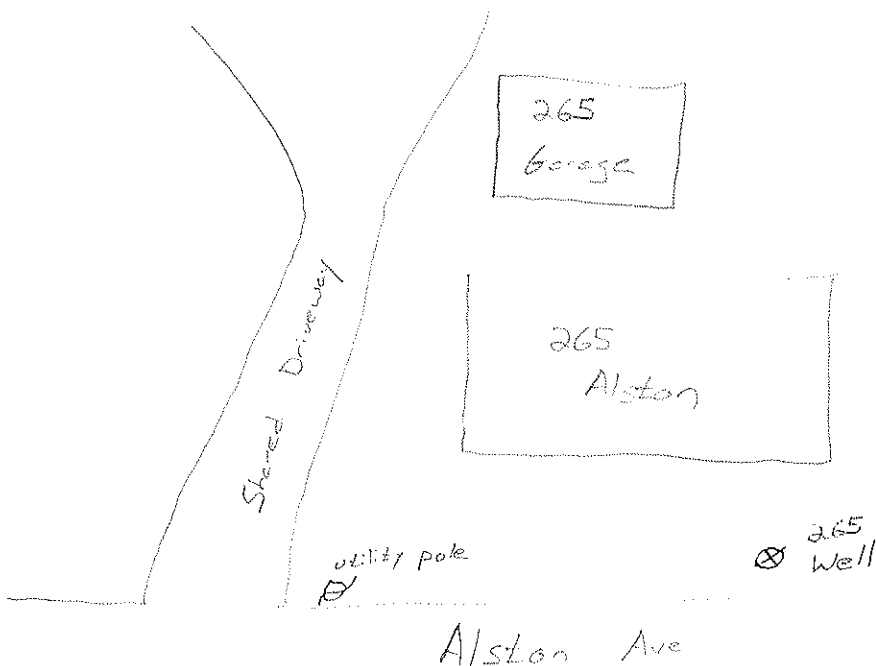
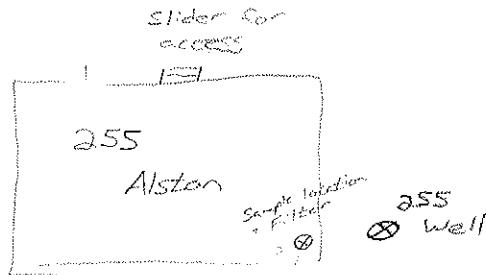
Attach Equipment Calibration Log: _____

Eastham Landfill
Private Well Sampling Log

Summary of Sampling and Monitoring Activities: Used barbed hose fitting and disposable tubing to purge from pressure tank. Collect samples directly from tank outlet. Use 5-gal buckets to dump water outside. 100 foot garden hose would be useful in future to purge water out backdoor of basement. Asked by owner to turn off lights when done and be careful not to let cats escape. Purged for 20 mins @ 2 gpm = 40 gal total

- Jane Crowley made contact w/ homeowner to set up sampling. Homeowner never responded to our messages.

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



Eastham Landfill
Private Well Sampling Log

Date: 8/27/13
Sampler: EL
Weather Conditions: cloudy, 0-5 mph
Temperature: 70's

Location: 80 Alston Ave
Property Owner: James Kenneway
Property Contact: same
Phone: 508-237-6716
Email: none provided

Contact Log Attached: Yes: X No: _____

Analysis Required: VOC (524.2) and 1,4-Dioxane (522.1, with RL of 0.2 ug/l)

Analytical Lab: TestAmerica

Sample Location: Kitchen sink

Describe water system Pressure tank, no filters
including treatment: _____

Water meter reading: none

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 1415 Finish: 1430

Time	pH	DO	Conductivity	Temperature
1420	6.24	5.79	0.381	13.41
1425	5.86	7.16	0.381	13.21
1430	5.82	7.31	0.384	13.03

Volume Purged: 31.5 gallons 2.1 gal/min

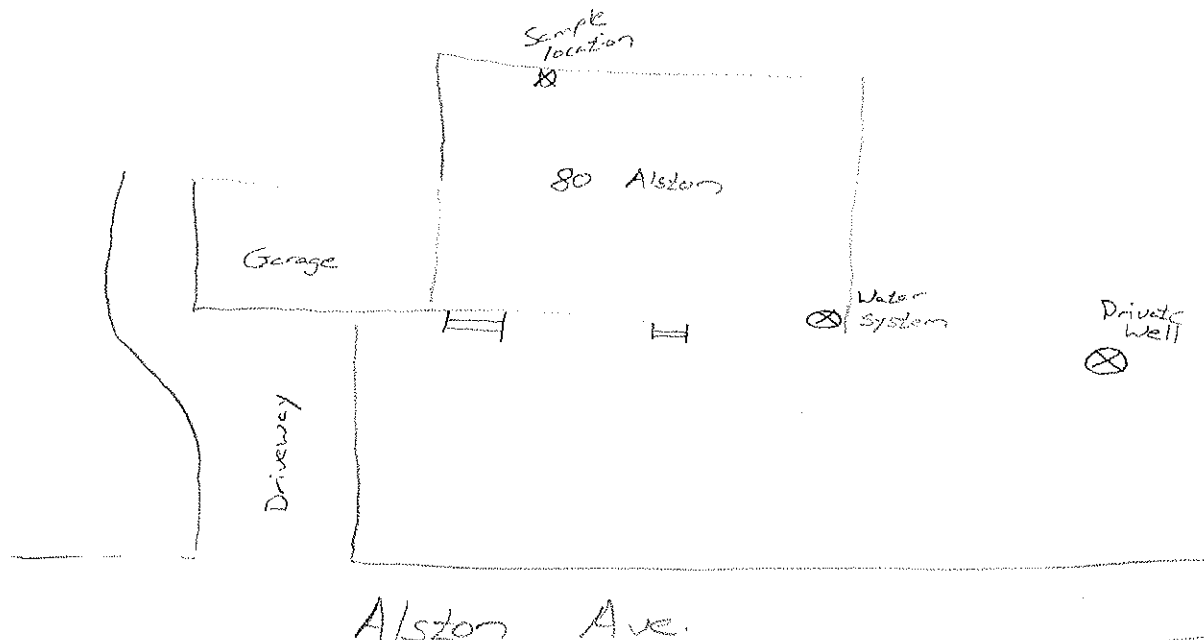
Equipment Utilized: YSI 600

Attach Equipment Calibration Log: _____

Eastham Landfill
Private Well Sampling Log

Summary of Sampling and Monitoring Activities: Purge at Kitchen sink. Water system in basement w/ pressure tank, no filters. House and yard very messy and cluttered w/ junk/debris. Purge for 15 min @ 2.1 gal/min = 31.5 gal total. Jane Crowley met w/ Mr. Kenneway during our sampling

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



Eastham Landfill
Private Well Sampling Log

Date: 8/27/13
Sampler: EC
Weather Conditions: 70's, clouds/lt. rain, 0-5 mph
Temperature: 70's

Location: 25 Knowles St
Property Owner: May & Peter Martinelli
Property Contact: same
Phone: 413-684-3828
Email: none provided

Contact Log Attached: Yes: X No: _____

Analysis Required: VOC (524.2) and 1,4-Dioxane (522.1, with RL of 0.2 ug/l)

Analytical Lab: TestAmerica

Sample Location: Kitchen sink

Describe water system Well w/ pressure tank, no treatment
including treatment: system

Water meter reading: _____

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 09:30 Finish: 09:55

Time	pH	DO	Conductivity	Temperature
0940	6.81	6.72	0.397	14.86
0945	5.97	6.18	0.397	13.44
0950	5.83	7.22	0.393	13.20
0955	5.80	6.29	0.394	13.45

Volume Purged: 27.25 gallons 1.07 gal/min

Equipment Utilized: YSI 600

Attach Equipment Calibration Log: _____

Sample ID - Knowles_025_Street

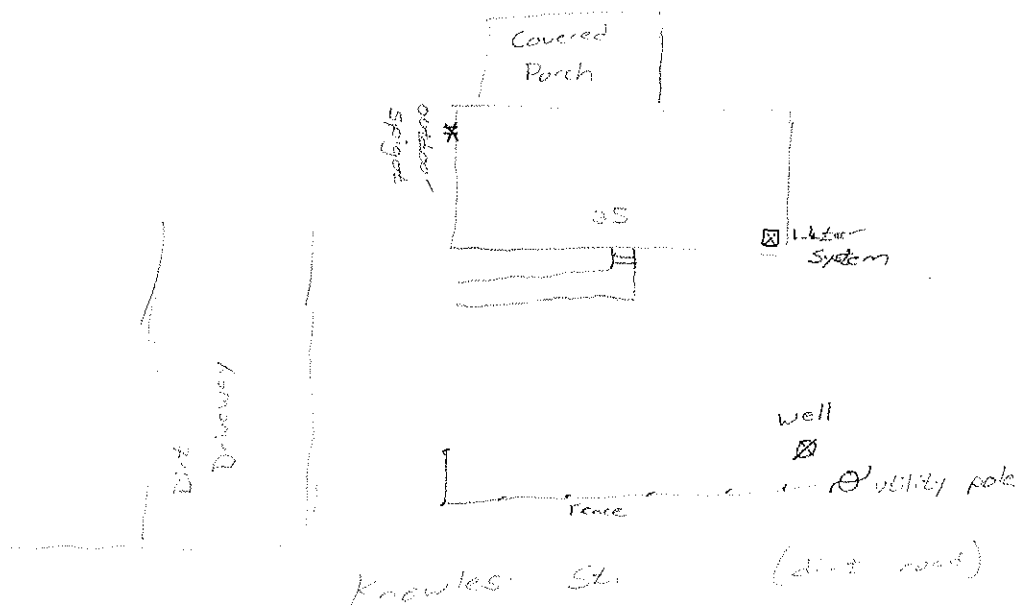
Eastham Landfill
Private Well Sampling Log

Summary of Sampling and Monitoring Activities: Homeowner said samples have always been taken from Kitchen sink unless they are not home, then outside spigot on left hand side.

- Purge @ Kitchen sink for 25 mins, total 27.25 gal. Use 5 gal buckets to purge and record YSI parameters.

- Jane Crowley accompanied us

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



Eastham Landfill
Private Well Sampling Log

Date: 8/28/13
Sampler: EC
Weather Conditions: cloudy, 0-5 mph wind
Temperature: 70's

Location: 30 Knowles St
Property Owner: John Cunningham
Property Contact: same
Phone: 508-280-7356
Email: none provided

Contact Log Attached: Yes: X No: _____

Analysis Required: VOC (524.2) and 1,4-Dioxane (522.1, with RL of 0.2 ug/l)

Analytical Lab: TestAmerica

Sample Location: Spigot on righthand side of house

Describe water system Pressure tank, no filtration

including treatment: _____

Water meter reading: _____

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 1000 Finish: 1010

Time	pH	DO	Conductivity	Temperature
1000	6.46	6.32	0.616	15.93
1002	6.34	5.89	0.614	12.98
1004	6.26	5.15	0.618	12.71
1006	6.21	5.06	0.618	12.66
1008	6.19	4.91	0.618	12.59

Volume Purged: 50 gallons 5 gal/min

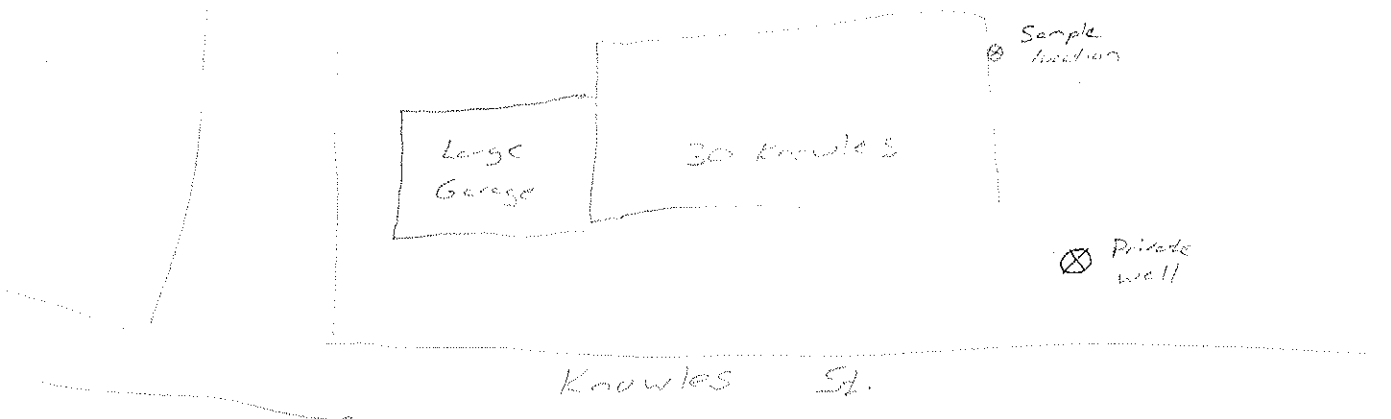
Equipment Utilized: YSI 600

Attach Equipment Calibration Log:

Eastham Landfill
Private Well Sampling Log

Summary of Sampling and Monitoring Activities: Purged and sampled from spigot on righthand side of house. Could not enter basement to see water system, but told by owner that there is no filtration. Well is located off right front corner of house, marked w/ bird bath stand. Purged for 10 mins @ 5gpm = 50 gal total

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



Eastham Landfill
Private Well Sampling Log

Date: 8/28/13
Sampler: EC
Weather Conditions: cloudy, 0-5 mph wind
Temperature: 70's

Location: 45 Knowles St
Property Owner: Lynne & Thomas Linnehan
Property Contact: same
Phone: 508-361-1643
Email: tom50west@comcast.net

Contact Log Attached: Yes: X

No: _____

Analysis Required: VOC (524.2) and 1,4 Dioxane (522.1, with RL of 0.2 ug/l)

Analytical Lab: TestAmerica

Sample Location: outdoor shower, rear of house

Describe water system pressure tank, no filtration

including treatment: _____

Water meter reading: _____

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 0855

Finish: 0905

Time	pH	DO	Conductivity	Temperature
0856	6.63	7.59	0.422	12.55
0858	6.46	8.04	0.426	12.01
0900	6.16	7.51	0.428	12.14
0902	6.11	7.84	0.429	12.02

Volume Purged: 65 gallons 6.5 gal/min

Equipment Utilized: YSI 600

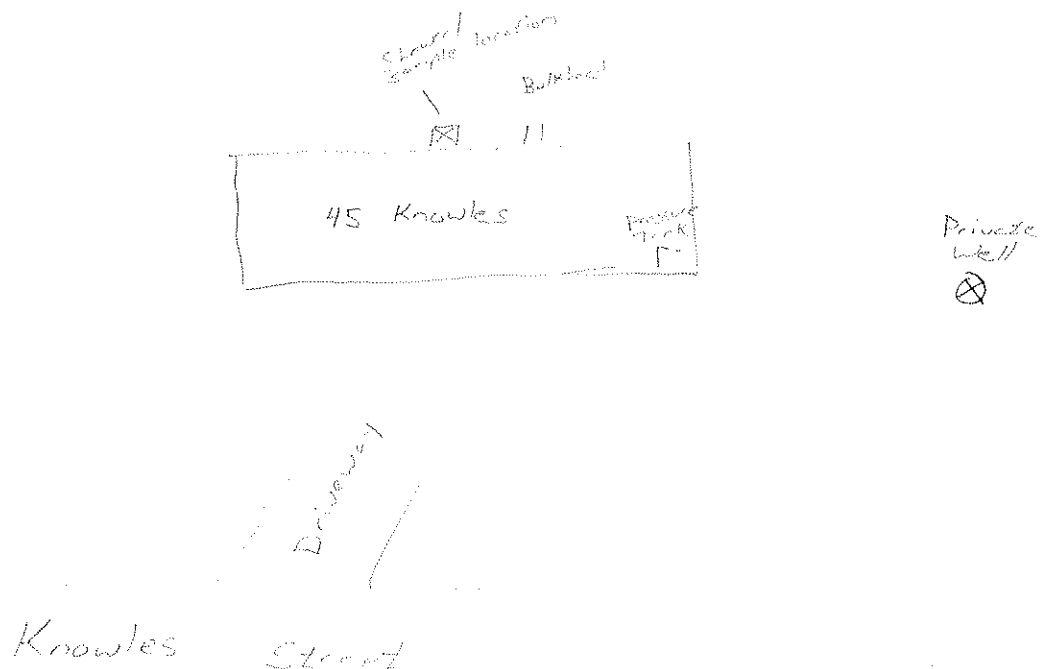
Attach Equipment Calibration Log: _____

Eastham Landfill
Private Well Sampling Log

Summary of Sampling and Monitoring Activities: Enter cellar, thru rear of house to turn on water. Purge and sample from outdoor shower. Remove shower head to increase flow rate. Replace shower head and shut off water in basement when done. Private well is located to right side of house in wooded area.

Purged for 10 mins @ 6.5 gpm = 65 gal total

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



Eastham Landfill
Private Well Sampling Log

Date: 8/27/13
Sampler: EC
Weather Conditions: cloudy, 0-5 mph
Temperature: 70's

Location: 100 Meetinghouse Rd
Property Owner: Jeffrey Carlson
Property Contact: same
Phone: 774-836-6021
Email: carl.crft@comcast.net

Contact Log Attached: Yes: X No: _____

Analysis Required: VOC (524.2) and 1,4-Dioxane (522.1, with RL of 0.2 ug/l), Arsenic

Analytical Lab: TestAmerica & Town of Barnstable DHE

Sample Location: Outside spigot next to shower. Meetinghouse 100B

Describe water system _____

including treatment: _____

Water meter reading: _____

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 1140 Finish: 1155

Time	pH	DO	Conductivity	Temperature
1145	6.51	5.62	0.267	15.52
1150	6.26	4.71	0.262	13.16
1155	6.17	4.27	0.263	13.63

Volume Purged: 40.5 gallons 2.7 gal/min

Equipment Utilized: YSI 600

Attach Equipment Calibration Log: _____

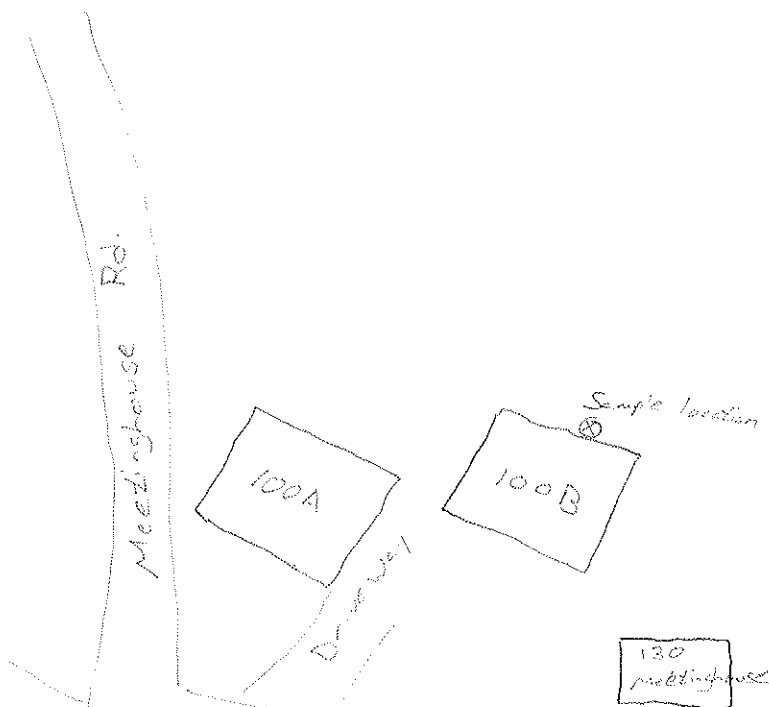
Eastham Landfill
Private Well Sampling Log

Summary of Sampling and Monitoring Activities: Collect sample from spigot on back deck next to shower. Sample location is at 100B Meetinghouse, located behind and to the right of 100A

Could not enter house to observe water system at occupants request due to sleeping baby

Purged for 15 min @ 2.7 gpm = 40.5 gal total

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



Eastham Landfill
Private Well Sampling Log

Date: 8/27/13
Sampler: EC
Weather Conditions: cloudy, 0-5 mph
Temperature: 70's

Location: 100 Meetinghouse Rd
Property Owner: Jeffrey Carlson
Property Contact: same
Phone: 774-836-6021
Email: carl.crft@comcast.net

Contact Log Attached: Yes: X No: _____

Analysis Required: VOC (524.2) and 1,4-Dioxane (522.1, with RL of 0.2 ug/l), Arsenic

Analytical Lab: TestAmerica & Town of Barnstable DHE

Sample Location: Outside spigot next to shower. Meetinghouse 100B

Describe water system _____

including treatment: _____

Water meter reading: _____

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 1140 Finish: 1155

Time	pH	DO	Conductivity	Temperature
1145	6.51	5.62	0.267	15.52
1150	6.26	4.71	0.262	13.16
1155	6.17	4.27	0.263	13.63

Volume Purged: 40.5 gallons 2.7 gal/min

Equipment Utilized: YSI 600

Attach Equipment Calibration Log: _____

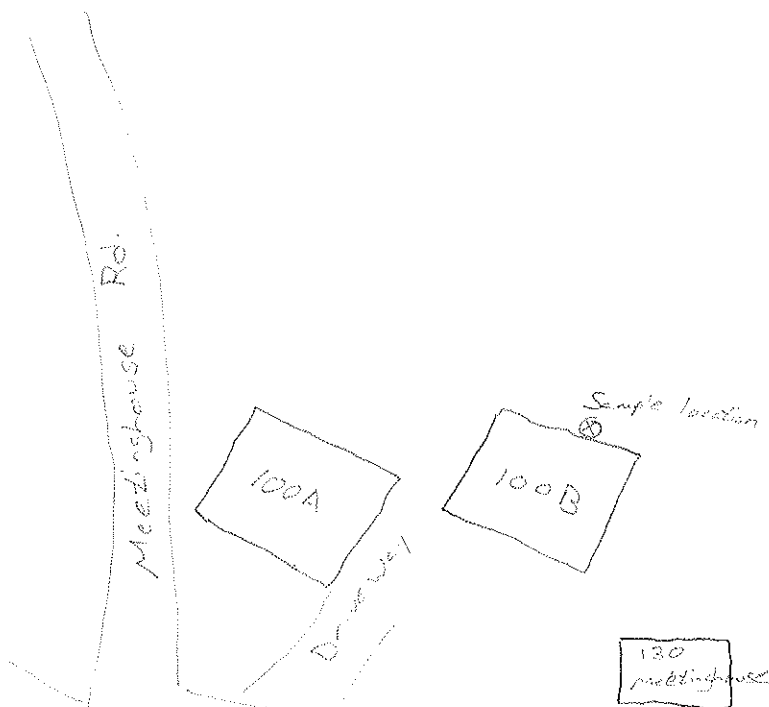
Eastham Landfill
Private Well Sampling Log

Summary of Sampling and Monitoring Activities: Collect sample from spigot on back deck next to shower. Sample location is at 100B Meetinghouse, located behind and to the right of 100A

Could not enter house to observe water system at occupants request due to sleeping baby

Purged for 15 min @ 2.7 gpm = 40.5 gal total

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



Eastham Landfill
Private Well Sampling Log

Date: 8/28/13
Sampler: EC
Weather Conditions: cloudy, 0-5 mph
Temperature: 70's

Location: 180 Old Orchard Rd
Property Owner: Mark & Douglas Okane
Property Contact: same
Phone: 508-240-2263
Email: markokane@earthlink.net
Contact Log Attached: Yes: X No: _____

Analysis Required: VOC (524.2) and 1,4-Dioxane (522.1, with RL of 0.2 ug/l), Arsenic

Analytical Lab: TestAmerica & Town of Barnstable DHE

Sample Location: Spigot on front of house

Describe water system _____

including treatment: _____

Water meter reading: _____

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 1055 Finish: 1105

Time	pH	DO	Conductivity	Temperature
1056	7.11	7.69	0.202	15.75
1058	6.08	6.30	0.200	14.44
1102	5.87	6.10	0.200	14.79
1104	5.71	5.85	0.200	15.25

Volume Purged: 13 gallons 4.3 gal/min

Equipment Utilized: YSI 600

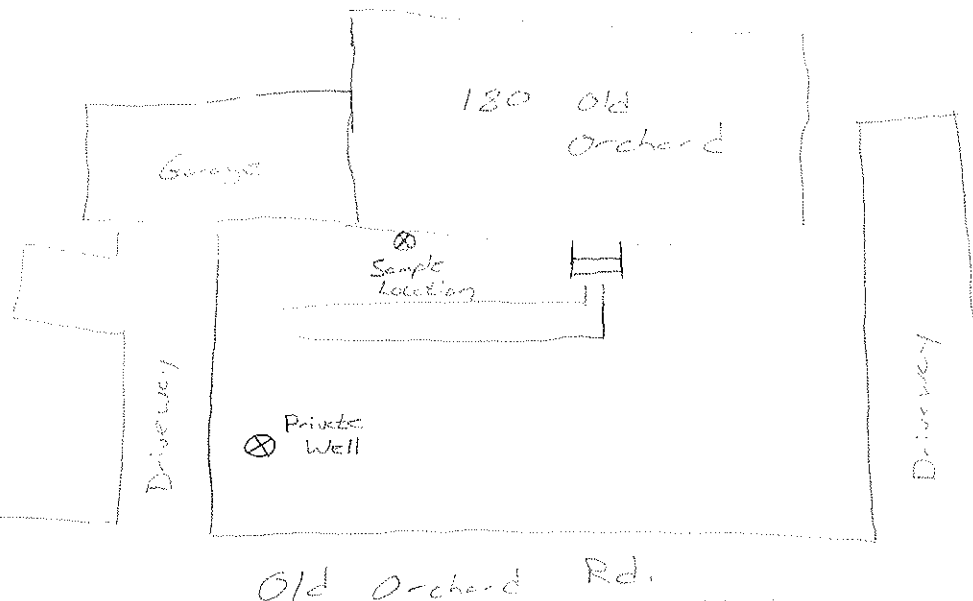
Attach Equipment Calibration Log: _____

Eastham Landfill
Private Well Sampling Log

Summary of Sampling and Monitoring Activities: Purged water thru garden hose, collect sample directly from spigot. House is empty w/ For Sale sign in yard. Could not enter home to observe water system. Instructed on sampling location by homeowner on telephone. Private well located in bushes to right of driveway in front of garage.

Purged for 10 min @ 4.3 gpm = 43 gal total.

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



Eastham Landfill
Private Well Sampling Log

Date: 8/28/13
Sampler: EC
Weather Conditions: cloudy, 0-5 mph
Temperature: 70's

Location: 180 Old Orchard Rd
Property Owner: Mark & Douglas Okane
Property Contact: same
Phone: 508-240-2263
Email: markokane@earthlink.net
Contact Log Attached: Yes: X No: _____

Analysis Required: VOC (524.2) and 1,4-Dioxane (522.1, with RL of 0.2 ug/l), Arsenic

Analytical Lab: TestAmerica & Town of Barnstable DHE

Sample Location: Spigot on front of house

Describe water system _____

including treatment: _____

Water meter reading: _____

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 1055 Finish: 1105

Time	pH	DO	Conductivity	Temperature
1056	7.11	7.69	0.202	15.75
1058	6.08	6.30	0.200	14.44
1102	5.87	6.10	0.200	14.79
1104	5.71	5.85	0.200	15.25

Volume Purged: 13 gallons 4.3 gal/min

Equipment Utilized: YSI 600

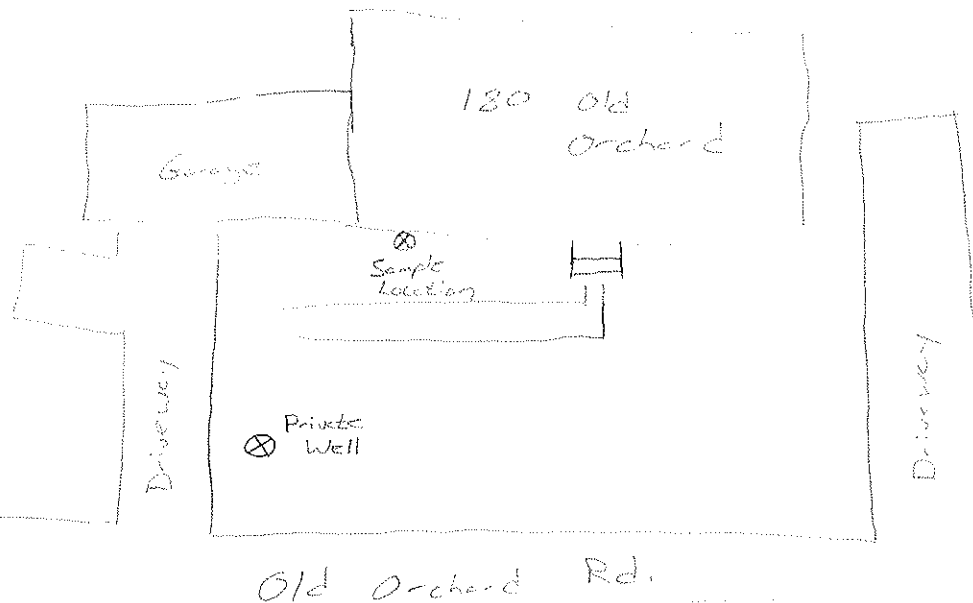
Attach Equipment Calibration Log: _____

Eastham Landfill
Private Well Sampling Log

Summary of Sampling and Monitoring Activities: Purged water thru garden hose, collect sample directly from spigot. House is empty w/ For Sale sign in yard. Could not enter home to observe water system. Instructed on sampling location by homeowner on telephone. Private well located in bushes to right of driveway in front of garage.

Purged for 10 min @ 4.3 gpm = 43 gal total.

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



Eastham Landfill
Private Well Sampling Log

Date: 8/27/13
Sampler: EC
Weather Conditions: cloudy, 0-5 mph wind
Temperature: 70's

Location: 325 Schoolhouse St
Property Owner: Lisa & Stephen Colley
Property Contact: same
Phone: 508-246-6655
Email: none provided

Contact Log Attached: Yes: X No: _____

Analysis Required: VOC (524.2) and 1,4-Dioxane (522.1, with RL of 0.2 ug/l)

Analytical Lab: TestAmerica

Sample Location: INF + Mid: basement EFF: back spigot

Describe water system Pressure tank into 2 CETCO activated carbon units

including treatment: Original carbon unit is inactive and bypassed

Water meter reading: 813754 - 813871

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 1235 Finish: 1255

Time	pH	DO	Conductivity	Temperature
1235	6.36	3.67	0.844	21.09
1240	6.28	2.11	0.842	21.24
1245	6.27	2.21	0.847	21.42
1250	6.23	1.91	0.837	21.40
1255	6.24	3.02	0.834	21.23

Volume Purged: 48 gallons 2.4 gal/min

Equipment Utilized: YSI-660

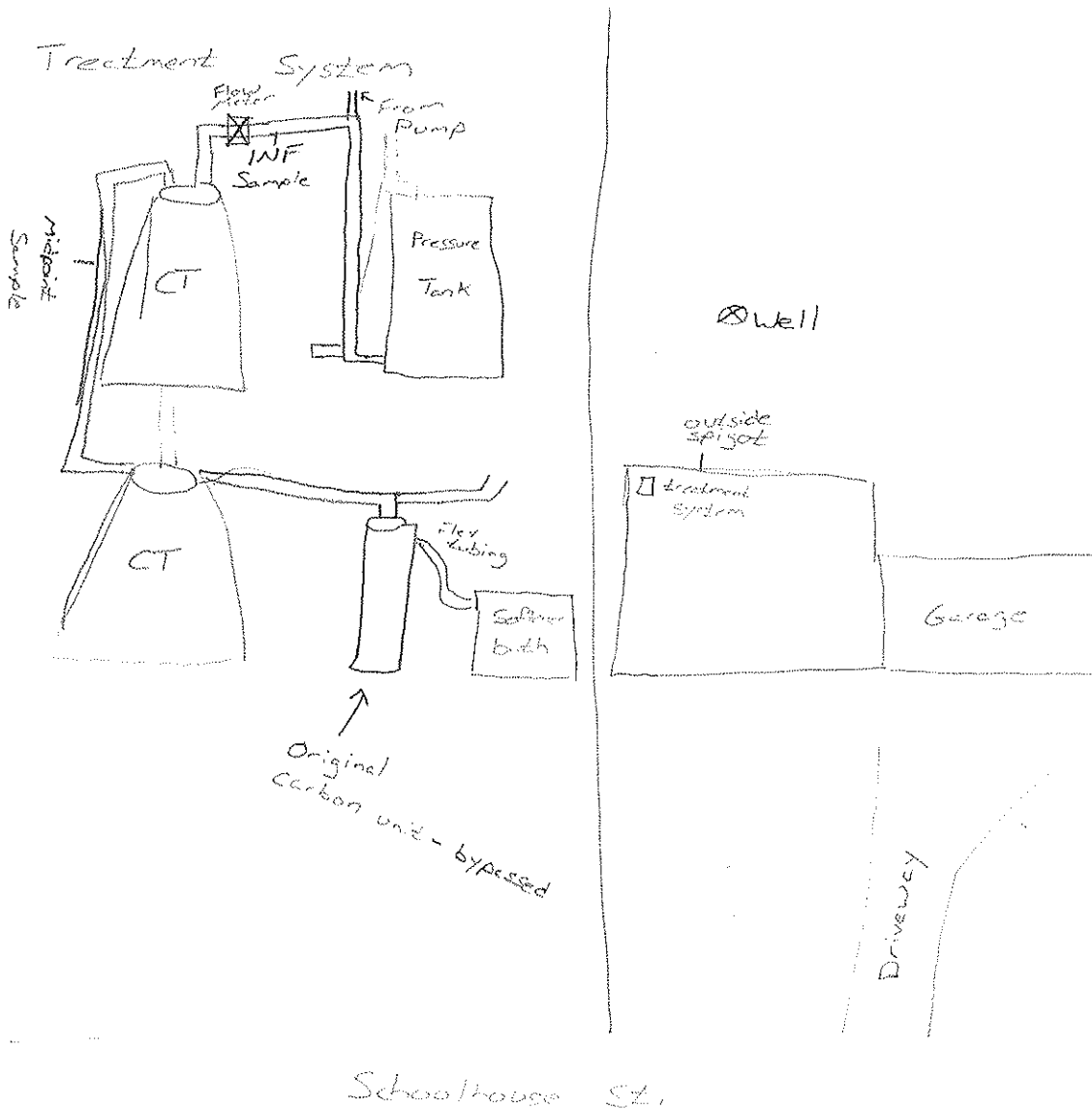
Attach Equipment Calibration Log: _____

Summary of Sampling and Monitoring Activities: Purge from spigot on back of house.
Collect EFF sample from spigot and MID + INF from system
in basement. Water at midpoint and effluent is highly aerated.

Purged for 20 min @ 2.4 gpm = 48 gal total

EFF: 1255 Mid: 1300 INF: 1305

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:





**BARNSTABLE COUNTY
DEPARTMENT OF HEALTH AND ENVIRONMENT**

BARNSTABLE COUNTY COMPLEX
3195 MAIN STREET / PO BOX 427
BARNSTABLE, MASSACHUSETTS 02630

Phone: (508) 375-6613
FAX (508) 362-2603
TDD (508) 362-5885

WATER SAMPLING LOG: EASTHAM LANDFILL

WELL NUMBER: mw 3i DATE: 9/5/13
WEATHER: rain 65 TIME: 1030

EVACUATION DATA

DESCRIPTION OF MEASURING POINT: Top of Casing
DEPTH TO BOTTOM OF WELL: 52.38 DIAMETER OF CASING: 2"
DEPTH TO WATER IN WELL: 18.43 MATERIAL OF WELL: PVC
FEET OF WATER IN WELL: 33.95 GALLONS PER FOOT: 0.16
GALLONS OF WATER IN WELL: 5.43 AMOUNT TO PURGE: 35gal

EVACUATION METHOD: DC Purgible Pump/dedicated bailer/dedicated watterra

SAMPLING DATA/FIELD PARAMETERS

COLOR: clear ODOR: - APPEARANCE: -
PH: 6.39 TEMP: 12.64 COND: 370 DO: 2.27
OTHER: _____

SAMPLING METHOD AND MATERIAL: dedicated bailer/dedicated watterra

CONSTITUENTS SAMPLED	CONTAINER DESCRIPTION	PRESERVATIVE
Nit/Alk 900	500 mL plastic	-
*Metals 901, 907	250 mL plastic	HNO3
COD 902	40 mL glass vial	H2SO4
VOC 903, 904, 905	40 mL glass vial	HCl
TCN 906	500 mL plastic	NaOH

REMARKS: * Field Filtered

SAMPLING PERSONNEL: Lynn Mulkeen -BCDHE

WELL CASING VOLUMES:

1 1/4"=0.06 1 1/2"=0.09 2"=0.16 2 1/2"=0.26 3"=0.37 3 1/2"=0.50
4"=0.65 6"=1.47

7:51

203 mscabot



**BARNSTABLE COUNTY
DEPARTMENT OF HEALTH AND ENVIRONMENT**

BARNSTABLE COUNTY COMPLEX
3195 MAIN STREET / PO BOX 427
BARNSTABLE, MASSACHUSETTS 02630

Phone: (508) 375-6613
FAX (508) 362-2603
TDD (508) 362-5885

WATER SAMPLING LOG: EASTHAM LANDFILL

WELL NUMBER: mw 3D (BCH#3) DATE: 9/5/13
WEATHER: rain 65 TIME: 1030

EVACUATION DATA

DESCRIPTION OF MEASURING POINT: Top of Casing
DEPTH TO BOTTOM OF WELL: 73.43 DIAMETER OF CASING: 2"
DEPTH TO WATER IN WELL: 18.33 MATERIAL OF WELL: PVC
FEET OF WATER IN WELL: 55.10 GALLONS PER FOOT: 0.16
GALLONS OF WATER IN WELL: 8.82 AMOUNT TO PURGE: 55gal

EVACUATION METHOD: DC Purgible Pump/dedicated bailer/dedicated watterra

SAMPLING DATA/FIELD PARAMETERS

COLOR: - ODOR: leachate APPEARANCE: some suds
PH: 6.46 TEMP: 12.90 COND: 1610 DO: 3.50
OTHER: _____

SAMPLING METHOD AND MATERIAL: dedicated bailer/dedicated watterra

CONSTITUENTS SAMPLED	CONTAINER DESCRIPTION	PRESERVATIVE
<u>916 Nit/Alk 908</u>	<u>500 mL plastic</u>	<u>-</u>
<u>923, 917 *Metals 909, 915</u>	<u>250 mL plastic</u>	<u>HNO3</u>
<u>918 COD 910</u>	<u>40 mL glass vial</u>	<u>H2SO4</u>
<u>919, 920, 921 VOC 911, 912, 913</u>	<u>40 mL glass vial</u>	<u>HCl</u>
<u>922 TCN 914</u>	<u>500 mL plastic</u>	<u>NaOH</u>

REMARKS: * Field Filtered

SAMPLING PERSONNEL: Lynn Mulkeen -BCDHE

WELL CASING VOLUMES:

1 1/4"=0.06 1 1/2"=0.09 2"=0.16 2 1/2"=0.26 3"=0.37 3 1/2"=0.50
4"=0.65 6"=1.47

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-41135-1

Client Project/Site: Eastham Landfill IRA

For:

Bennett Environmental Associates, Inc.

1573 Main St.

Brewster, Massachusetts 02631

Attn: David Bennett



Authorized for release by:

7/12/2013 12:22:26 PM

Steve Hartmann, Lab Director

steve.hartmann@testamericainc.com

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Job ID: 480-41135-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-41135-1

Receipt

The samples were received on 6/29/2013 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9° C.

GC/MS VOA (524.2)

Method(s) 524.2: The laboratory control sample (LCS) for batch 127104 recovered outside control limits for the following analytes: 2,2-Dichloropropane and Hexachlorobutadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 524.2: The continuing calibration verification (CCV) for 2,2-Dichloropropane associated with batch 127104 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA (522 MOD)

No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 25 Knowles St.

Lab Sample ID: 480-41135-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1-Dichloroethane	0.21	J	0.50	0.074	ug/L			1	524.2	Total/NA
Acetone	0.57	J	2.5	0.54	ug/L			1	524.2	Total/NA
Chloroethane	0.15	J	0.50	0.070	ug/L			1	524.2	Total/NA
Chloroform	0.36	J	0.50	0.14	ug/L			1	524.2	Total/NA
cis-1,2-Dichloroethene	1.6		0.50	0.12	ug/L			1	524.2	Total/NA
Methyl tert-butyl ether	0.27	J	0.50	0.12	ug/L			1	524.2	Total/NA
t-Butanol	3.1	J	10	2.5	ug/L			1	524.2	Total/NA
1,4-Dioxane	2.8		0.20	0.040	ug/L			1	522 MOD	Total/NA

Client Sample ID: 30 Knowles St.

Lab Sample ID: 480-41135-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1-Dichloroethane	0.35	J	0.50	0.074	ug/L			1	524.2	Total/NA
Acetone	0.90	J	2.5	0.54	ug/L			1	524.2	Total/NA
Benzene	0.25	J	0.50	0.13	ug/L			1	524.2	Total/NA
Chloroethane	0.32	J	0.50	0.070	ug/L			1	524.2	Total/NA
Chloroform	0.20	J	0.50	0.14	ug/L			1	524.2	Total/NA
Chloromethane	0.16	J	0.50	0.063	ug/L			1	524.2	Total/NA
cis-1,2-Dichloroethene	1.6		0.50	0.12	ug/L			1	524.2	Total/NA
Methyl tert-butyl ether	0.76		0.50	0.12	ug/L			1	524.2	Total/NA
t-Butanol	7.3	J	10	2.5	ug/L			1	524.2	Total/NA
Vinyl chloride	0.15	J	0.50	0.059	ug/L			1	524.2	Total/NA
1,4-Dioxane	5.0		0.20	0.040	ug/L			1	522 MOD	Total/NA

Client Sample ID: 325 Schoolhouse Rd. Raw Water

Lab Sample ID: 480-41135-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1-Dichloroethane	0.41	J	0.50	0.074	ug/L			1	524.2	Total/NA
Acetone	1.2	J	2.5	0.54	ug/L			1	524.2	Total/NA
Benzene	0.54		0.50	0.13	ug/L			1	524.2	Total/NA
Chloroethane	0.52		0.50	0.070	ug/L			1	524.2	Total/NA
cis-1,2-Dichloroethene	2.2		0.50	0.12	ug/L			1	524.2	Total/NA
Methyl tert-butyl ether	1.6		0.50	0.12	ug/L			1	524.2	Total/NA
t-Butanol	14		10	2.5	ug/L			1	524.2	Total/NA
Vinyl chloride	0.26	J	0.50	0.059	ug/L			1	524.2	Total/NA
1,4-Dioxane	8.2		0.40	0.080	ug/L			2	522 MOD	Total/NA

Client Sample ID: 325 Schoolhouse Rd. Intermediate

Lab Sample ID: 480-41135-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,4-Dioxane	0.041	J	0.20	0.040	ug/L			1	522 MOD	Total/NA

Client Sample ID: 325 Schoolhouse Rd. Finish

Lab Sample ID: 480-41135-9

No Detections.

Client Sample ID: 50 Alston Ave.

Lab Sample ID: 480-41135-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1-Dichloroethane	0.24	J	0.50	0.074	ug/L			1	524.2	Total/NA
1,4-Dioxane	0.18	J	0.20	0.040	ug/L			1	522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 11 Eldia Way

Lab Sample ID: 480-41135-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.22	J	0.50	0.074	ug/L	1		524.2	Total/NA
Benzene	0.18	J	0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.27	J	0.50	0.070	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	0.86		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	1.3		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	5.9	J	10	2.5	ug/L	1		524.2	Total/NA
Vinyl chloride	0.24	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	4.3		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 180 Old Orchard Rd.

Lab Sample ID: 480-41135-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.35	J	0.50	0.14	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	0.13	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.45		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-41135-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.2		2.5	0.54	ug/L	1		524.2	Total/NA
o-Xylene	0.12	J	0.50	0.044	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 25 Knowles St.

Lab Sample ID: 480-41135-1

Date Collected: 06/27/13 11:40

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/02/13 18:21	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/02/13 18:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/02/13 18:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/02/13 18:21	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/02/13 18:21	1
1,1-Dichloroethane	0.21	J	0.50	0.074	ug/L			07/02/13 18:21	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/02/13 18:21	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/02/13 18:21	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/02/13 18:21	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/02/13 18:21	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/02/13 18:21	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/02/13 18:21	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/02/13 18:21	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/02/13 18:21	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/02/13 18:21	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/02/13 18:21	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/02/13 18:21	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/02/13 18:21	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/02/13 18:21	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/02/13 18:21	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/02/13 18:21	1
2,2-Dichloropropane	ND	*	0.50	0.048	ug/L			07/02/13 18:21	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/02/13 18:21	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/02/13 18:21	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/02/13 18:21	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/02/13 18:21	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/02/13 18:21	1
Acetone	0.57	J	2.5	0.54	ug/L			07/02/13 18:21	1
Benzene	ND		0.50	0.13	ug/L			07/02/13 18:21	1
Bromobenzene	ND		0.50	0.13	ug/L			07/02/13 18:21	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/02/13 18:21	1
Bromoform	ND		0.50	0.13	ug/L			07/02/13 18:21	1
Bromomethane	ND		0.50	0.051	ug/L			07/02/13 18:21	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/02/13 18:21	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/02/13 18:21	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/02/13 18:21	1
Chloroethane	0.15	J	0.50	0.070	ug/L			07/02/13 18:21	1
Chloroform	0.36	J	0.50	0.14	ug/L			07/02/13 18:21	1
Chloromethane	ND		0.50	0.063	ug/L			07/02/13 18:21	1
cis-1,2-Dichloroethene	1.6		0.50	0.12	ug/L			07/02/13 18:21	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/02/13 18:21	1
Dibromomethane	ND		0.50	0.17	ug/L			07/02/13 18:21	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/02/13 18:21	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/02/13 18:21	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/02/13 18:21	1
Hexachlorobutadiene	ND	*	0.50	0.11	ug/L			07/02/13 18:21	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/02/13 18:21	1
Methyl tert-butyl ether	0.27	J	0.50	0.12	ug/L			07/02/13 18:21	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/02/13 18:21	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 25 Knowles St.

Lab Sample ID: 480-41135-1

Date Collected: 06/27/13 11:40

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/02/13 18:21	1
Naphthalene	ND		0.50	0.060	ug/L			07/02/13 18:21	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/02/13 18:21	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/02/13 18:21	1
o-Xylene	ND		0.50	0.044	ug/L			07/02/13 18:21	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/02/13 18:21	1
Styrene	ND		0.50	0.044	ug/L			07/02/13 18:21	1
t-Butanol	3.1	J	10	2.5	ug/L			07/02/13 18:21	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/02/13 18:21	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/02/13 18:21	1
Toluene	ND		0.50	0.10	ug/L			07/02/13 18:21	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/02/13 18:21	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/02/13 18:21	1
Trichloroethene	ND		0.50	0.060	ug/L			07/02/13 18:21	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/02/13 18:21	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/02/13 18:21	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/02/13 18:21	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/02/13 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	113		80 - 120		07/02/13 18:21	1
4-Bromofluorobenzene (Surr)	95		80 - 120		07/02/13 18:21	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.8		0.20	0.040	ug/L		07/02/13 09:22	07/02/13 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	85		70 - 130	07/02/13 09:22	07/02/13 17:21	1

Client Sample ID: 30 Knowles St.

Lab Sample ID: 480-41135-3

Date Collected: 06/27/13 10:40

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/02/13 19:12	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/02/13 19:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/02/13 19:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/02/13 19:12	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/02/13 19:12	1
1,1-Dichloroethane	0.35	J	0.50	0.074	ug/L			07/02/13 19:12	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/02/13 19:12	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/02/13 19:12	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/02/13 19:12	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/02/13 19:12	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/02/13 19:12	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/02/13 19:12	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/02/13 19:12	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/02/13 19:12	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 30 Knowles St.

Lab Sample ID: 480-41135-3

Date Collected: 06/27/13 10:40

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/02/13 19:12	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/02/13 19:12	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/02/13 19:12	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/02/13 19:12	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/02/13 19:12	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/02/13 19:12	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/02/13 19:12	1
2,2-Dichloropropane	ND	*	0.50	0.048	ug/L			07/02/13 19:12	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/02/13 19:12	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/02/13 19:12	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/02/13 19:12	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/02/13 19:12	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/02/13 19:12	1
Acetone	0.90	J	2.5	0.54	ug/L			07/02/13 19:12	1
Benzene	0.25	J	0.50	0.13	ug/L			07/02/13 19:12	1
Bromobenzene	ND		0.50	0.13	ug/L			07/02/13 19:12	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/02/13 19:12	1
Bromoform	ND		0.50	0.13	ug/L			07/02/13 19:12	1
Bromomethane	ND		0.50	0.051	ug/L			07/02/13 19:12	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/02/13 19:12	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/02/13 19:12	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/02/13 19:12	1
Chloroethane	0.32	J	0.50	0.070	ug/L			07/02/13 19:12	1
Chloroform	0.20	J	0.50	0.14	ug/L			07/02/13 19:12	1
Chloromethane	0.16	J	0.50	0.063	ug/L			07/02/13 19:12	1
cis-1,2-Dichloroethene	1.6		0.50	0.12	ug/L			07/02/13 19:12	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/02/13 19:12	1
Dibromomethane	ND		0.50	0.17	ug/L			07/02/13 19:12	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/02/13 19:12	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/02/13 19:12	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/02/13 19:12	1
Hexachlorobutadiene	ND	*	0.50	0.11	ug/L			07/02/13 19:12	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/02/13 19:12	1
Methyl tert-butyl ether	0.76		0.50	0.12	ug/L			07/02/13 19:12	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/02/13 19:12	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/02/13 19:12	1
Naphthalene	ND		0.50	0.060	ug/L			07/02/13 19:12	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/02/13 19:12	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/02/13 19:12	1
o-Xylene	ND		0.50	0.044	ug/L			07/02/13 19:12	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/02/13 19:12	1
Styrene	ND		0.50	0.044	ug/L			07/02/13 19:12	1
t-Butanol	7.3	J	10	2.5	ug/L			07/02/13 19:12	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/02/13 19:12	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/02/13 19:12	1
Toluene	ND		0.50	0.10	ug/L			07/02/13 19:12	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/02/13 19:12	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/02/13 19:12	1
Trichloroethene	ND		0.50	0.060	ug/L			07/02/13 19:12	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 30 Knowles St.

Lab Sample ID: 480-41135-3

Date Collected: 06/27/13 10:40

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/02/13 19:12	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/02/13 19:12	1
Vinyl chloride	0.15	J	0.50	0.059	ug/L			07/02/13 19:12	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/02/13 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	109		80 - 120					07/02/13 19:12	1
4-Bromofluorobenzene (Surr)	98		80 - 120					07/02/13 19:12	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	5.0		0.20	0.040	ug/L		07/02/13 09:22	07/02/13 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	86		70 - 130				07/02/13 09:22	07/02/13 17:46	1

Client Sample ID: 325 Schoolhouse Rd. Raw Water

Lab Sample ID: 480-41135-5

Date Collected: 06/27/13 12:45

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/02/13 20:03	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/02/13 20:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/02/13 20:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/02/13 20:03	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/02/13 20:03	1
1,1-Dichloroethane	0.41	J	0.50	0.074	ug/L			07/02/13 20:03	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/02/13 20:03	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/02/13 20:03	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/02/13 20:03	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/02/13 20:03	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/02/13 20:03	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/02/13 20:03	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/02/13 20:03	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/02/13 20:03	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/02/13 20:03	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/02/13 20:03	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/02/13 20:03	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/02/13 20:03	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/02/13 20:03	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/02/13 20:03	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/02/13 20:03	1
2,2-Dichloropropane	ND *		0.50	0.048	ug/L			07/02/13 20:03	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/02/13 20:03	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/02/13 20:03	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/02/13 20:03	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/02/13 20:03	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/02/13 20:03	1
Acetone	1.2	J	2.5	0.54	ug/L			07/02/13 20:03	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 325 Schoolhouse Rd. Raw Water

Lab Sample ID: 480-41135-5

Date Collected: 06/27/13 12:45

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.54		0.50	0.13	ug/L			07/02/13 20:03	1
Bromobenzene	ND		0.50	0.13	ug/L			07/02/13 20:03	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/02/13 20:03	1
Bromoform	ND		0.50	0.13	ug/L			07/02/13 20:03	1
Bromomethane	ND		0.50	0.051	ug/L			07/02/13 20:03	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/02/13 20:03	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/02/13 20:03	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/02/13 20:03	1
Chloroethane	0.52		0.50	0.070	ug/L			07/02/13 20:03	1
Chloroform	ND		0.50	0.14	ug/L			07/02/13 20:03	1
Chloromethane	ND		0.50	0.063	ug/L			07/02/13 20:03	1
cis-1,2-Dichloroethene	2.2		0.50	0.12	ug/L			07/02/13 20:03	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/02/13 20:03	1
Dibromomethane	ND		0.50	0.17	ug/L			07/02/13 20:03	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/02/13 20:03	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/02/13 20:03	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/02/13 20:03	1
Hexachlorobutadiene	ND *		0.50	0.11	ug/L			07/02/13 20:03	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/02/13 20:03	1
Methyl tert-butyl ether	1.6		0.50	0.12	ug/L			07/02/13 20:03	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/02/13 20:03	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/02/13 20:03	1
Naphthalene	ND		0.50	0.060	ug/L			07/02/13 20:03	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/02/13 20:03	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/02/13 20:03	1
o-Xylene	ND		0.50	0.044	ug/L			07/02/13 20:03	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/02/13 20:03	1
Styrene	ND		0.50	0.044	ug/L			07/02/13 20:03	1
t-Butanol	14		10	2.5	ug/L			07/02/13 20:03	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/02/13 20:03	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/02/13 20:03	1
Toluene	ND		0.50	0.10	ug/L			07/02/13 20:03	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/02/13 20:03	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/02/13 20:03	1
Trichloroethene	ND		0.50	0.060	ug/L			07/02/13 20:03	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/02/13 20:03	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/02/13 20:03	1
Vinyl chloride	0.26 J		0.50	0.059	ug/L			07/02/13 20:03	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/02/13 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	110		80 - 120		07/02/13 20:03	1
4-Bromofluorobenzene (Surr)	105		80 - 120		07/02/13 20:03	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	8.2		0.40	0.080	ug/L		07/02/13 09:22	07/03/13 11:47	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	83		70 - 130	07/02/13 09:22	07/03/13 11:47	2

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 325 Schoolhouse Rd. Intermediate

Lab Sample ID: 480-41135-7

Date Collected: 06/27/13 13:00

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/02/13 23:04	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/02/13 23:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/02/13 23:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/02/13 23:04	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/02/13 23:04	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/02/13 23:04	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/02/13 23:04	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/02/13 23:04	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/02/13 23:04	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/02/13 23:04	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/02/13 23:04	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/02/13 23:04	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/02/13 23:04	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/02/13 23:04	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/02/13 23:04	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/02/13 23:04	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/02/13 23:04	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/02/13 23:04	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/02/13 23:04	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/02/13 23:04	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/02/13 23:04	1
2,2-Dichloropropane	ND *		0.50	0.048	ug/L			07/02/13 23:04	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/02/13 23:04	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/02/13 23:04	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/02/13 23:04	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/02/13 23:04	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/02/13 23:04	1
Acetone	ND		2.5	0.54	ug/L			07/02/13 23:04	1
Benzene	ND		0.50	0.13	ug/L			07/02/13 23:04	1
Bromobenzene	ND		0.50	0.13	ug/L			07/02/13 23:04	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/02/13 23:04	1
Bromoform	ND		0.50	0.13	ug/L			07/02/13 23:04	1
Bromomethane	ND		0.50	0.051	ug/L			07/02/13 23:04	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/02/13 23:04	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/02/13 23:04	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/02/13 23:04	1
Chloroethane	ND		0.50	0.070	ug/L			07/02/13 23:04	1
Chloroform	ND		0.50	0.14	ug/L			07/02/13 23:04	1
Chloromethane	ND		0.50	0.063	ug/L			07/02/13 23:04	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/02/13 23:04	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/02/13 23:04	1
Dibromomethane	ND		0.50	0.17	ug/L			07/02/13 23:04	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/02/13 23:04	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/02/13 23:04	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/02/13 23:04	1
Hexachlorobutadiene	ND *		0.50	0.11	ug/L			07/02/13 23:04	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/02/13 23:04	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/02/13 23:04	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/02/13 23:04	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 325 Schoolhouse Rd. Intermediate

Lab Sample ID: 480-41135-7

Date Collected: 06/27/13 13:00

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/02/13 23:04	1
Naphthalene	ND		0.50	0.060	ug/L			07/02/13 23:04	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/02/13 23:04	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/02/13 23:04	1
o-Xylene	ND		0.50	0.044	ug/L			07/02/13 23:04	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/02/13 23:04	1
Styrene	ND		0.50	0.044	ug/L			07/02/13 23:04	1
t-Butanol	ND		10	2.5	ug/L			07/02/13 23:04	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/02/13 23:04	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/02/13 23:04	1
Toluene	ND		0.50	0.10	ug/L			07/02/13 23:04	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/02/13 23:04	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/02/13 23:04	1
Trichloroethene	ND		0.50	0.060	ug/L			07/02/13 23:04	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/02/13 23:04	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/02/13 23:04	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/02/13 23:04	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/02/13 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		07/02/13 23:04	1
4-Bromofluorobenzene (Surr)	101		80 - 120		07/02/13 23:04	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.041	J	0.20	0.040	ug/L		07/02/13 09:22	07/02/13 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	83		70 - 130	07/02/13 09:22	07/02/13 18:32	1

Client Sample ID: 325 Schoolhouse Rd. Finish

Lab Sample ID: 480-41135-9

Date Collected: 06/27/13 13:15

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/08/13 15:10	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/08/13 15:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/08/13 15:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/08/13 15:10	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/08/13 15:10	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/08/13 15:10	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/08/13 15:10	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/08/13 15:10	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/08/13 15:10	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/08/13 15:10	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 15:10	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/08/13 15:10	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/08/13 15:10	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/08/13 15:10	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 325 Schoolhouse Rd. Finish

Lab Sample ID: 480-41135-9

Date Collected: 06/27/13 13:15

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/08/13 15:10	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/08/13 15:10	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/08/13 15:10	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/08/13 15:10	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 15:10	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/08/13 15:10	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 15:10	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/08/13 15:10	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/08/13 15:10	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/08/13 15:10	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/08/13 15:10	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/08/13 15:10	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/08/13 15:10	1
Acetone	ND		2.5	0.54	ug/L			07/08/13 15:10	1
Benzene	ND		0.50	0.13	ug/L			07/08/13 15:10	1
Bromobenzene	ND		0.50	0.13	ug/L			07/08/13 15:10	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/08/13 15:10	1
Bromoform	ND		0.50	0.13	ug/L			07/08/13 15:10	1
Bromomethane	ND		0.50	0.051	ug/L			07/08/13 15:10	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/08/13 15:10	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/08/13 15:10	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/08/13 15:10	1
Chloroethane	ND		0.50	0.070	ug/L			07/08/13 15:10	1
Chloroform	ND		0.50	0.14	ug/L			07/08/13 15:10	1
Chloromethane	ND		0.50	0.063	ug/L			07/08/13 15:10	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/08/13 15:10	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/08/13 15:10	1
Dibromomethane	ND		0.50	0.17	ug/L			07/08/13 15:10	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/08/13 15:10	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/08/13 15:10	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/08/13 15:10	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/08/13 15:10	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/08/13 15:10	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/08/13 15:10	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/08/13 15:10	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/08/13 15:10	1
Naphthalene	ND		0.50	0.060	ug/L			07/08/13 15:10	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/08/13 15:10	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/08/13 15:10	1
o-Xylene	ND		0.50	0.044	ug/L			07/08/13 15:10	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/08/13 15:10	1
Styrene	ND		0.50	0.044	ug/L			07/08/13 15:10	1
t-Butanol	ND		10	2.5	ug/L			07/08/13 15:10	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/08/13 15:10	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/08/13 15:10	1
Toluene	ND		0.50	0.10	ug/L			07/08/13 15:10	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/08/13 15:10	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/08/13 15:10	1
Trichloroethene	ND		0.50	0.060	ug/L			07/08/13 15:10	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 325 Schoolhouse Rd. Finish

Lab Sample ID: 480-41135-9

Date Collected: 06/27/13 13:15

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/08/13 15:10	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/08/13 15:10	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/08/13 15:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/08/13 15:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120					07/08/13 15:10	1
4-Bromofluorobenzene (Surr)	103		80 - 120					07/08/13 15:10	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/02/13 09:22	07/02/13 18:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	89		70 - 130				07/02/13 09:22	07/02/13 18:55	1

Client Sample ID: 50 Alston Ave.

Lab Sample ID: 480-41135-11

Date Collected: 06/27/13 09:20

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/08/13 15:59	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/08/13 15:59	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/08/13 15:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/08/13 15:59	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/08/13 15:59	1
1,1-Dichloroethane	0.24 J		0.50	0.074	ug/L			07/08/13 15:59	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/08/13 15:59	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/08/13 15:59	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/08/13 15:59	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/08/13 15:59	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 15:59	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/08/13 15:59	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/08/13 15:59	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/08/13 15:59	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/08/13 15:59	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/08/13 15:59	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/08/13 15:59	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/08/13 15:59	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 15:59	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/08/13 15:59	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 15:59	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/08/13 15:59	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/08/13 15:59	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/08/13 15:59	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/08/13 15:59	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/08/13 15:59	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/08/13 15:59	1
Acetone	ND		2.5	0.54	ug/L			07/08/13 15:59	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 50 Alston Ave.

Lab Sample ID: 480-41135-11

Date Collected: 06/27/13 09:20

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/08/13 15:59	1
Bromobenzene	ND		0.50	0.13	ug/L			07/08/13 15:59	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/08/13 15:59	1
Bromoform	ND		0.50	0.13	ug/L			07/08/13 15:59	1
Bromomethane	ND		0.50	0.051	ug/L			07/08/13 15:59	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/08/13 15:59	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/08/13 15:59	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/08/13 15:59	1
Chloroethane	ND		0.50	0.070	ug/L			07/08/13 15:59	1
Chloroform	ND		0.50	0.14	ug/L			07/08/13 15:59	1
Chloromethane	ND		0.50	0.063	ug/L			07/08/13 15:59	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/08/13 15:59	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/08/13 15:59	1
Dibromomethane	ND		0.50	0.17	ug/L			07/08/13 15:59	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/08/13 15:59	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/08/13 15:59	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/08/13 15:59	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/08/13 15:59	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/08/13 15:59	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/08/13 15:59	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/08/13 15:59	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/08/13 15:59	1
Naphthalene	ND		0.50	0.060	ug/L			07/08/13 15:59	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/08/13 15:59	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/08/13 15:59	1
o-Xylene	ND		0.50	0.044	ug/L			07/08/13 15:59	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/08/13 15:59	1
Styrene	ND		0.50	0.044	ug/L			07/08/13 15:59	1
t-Butanol	ND		10	2.5	ug/L			07/08/13 15:59	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/08/13 15:59	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/08/13 15:59	1
Toluene	ND		0.50	0.10	ug/L			07/08/13 15:59	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/08/13 15:59	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/08/13 15:59	1
Trichloroethene	ND		0.50	0.060	ug/L			07/08/13 15:59	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/08/13 15:59	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/08/13 15:59	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/08/13 15:59	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/08/13 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	108		80 - 120		07/08/13 15:59	1
4-Bromofluorobenzene (Surr)	104		80 - 120		07/08/13 15:59	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.18	J	0.20	0.040	ug/L		07/02/13 09:22	07/02/13 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	86		70 - 130	07/02/13 09:22	07/02/13 19:17	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 11 Eldia Way

Lab Sample ID: 480-41135-13

Date Collected: 06/27/13 15:30

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/08/13 16:48	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/08/13 16:48	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/08/13 16:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/08/13 16:48	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/08/13 16:48	1
1,1-Dichloroethane	0.22	J	0.50	0.074	ug/L			07/08/13 16:48	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/08/13 16:48	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/08/13 16:48	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/08/13 16:48	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/08/13 16:48	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 16:48	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/08/13 16:48	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/08/13 16:48	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/08/13 16:48	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/08/13 16:48	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/08/13 16:48	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/08/13 16:48	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/08/13 16:48	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 16:48	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/08/13 16:48	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 16:48	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/08/13 16:48	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/08/13 16:48	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/08/13 16:48	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/08/13 16:48	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/08/13 16:48	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/08/13 16:48	1
Acetone	ND		2.5	0.54	ug/L			07/08/13 16:48	1
Benzene	0.18	J	0.50	0.13	ug/L			07/08/13 16:48	1
Bromobenzene	ND		0.50	0.13	ug/L			07/08/13 16:48	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/08/13 16:48	1
Bromoform	ND		0.50	0.13	ug/L			07/08/13 16:48	1
Bromomethane	ND		0.50	0.051	ug/L			07/08/13 16:48	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/08/13 16:48	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/08/13 16:48	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/08/13 16:48	1
Chloroethane	0.27	J	0.50	0.070	ug/L			07/08/13 16:48	1
Chloroform	ND		0.50	0.14	ug/L			07/08/13 16:48	1
Chloromethane	ND		0.50	0.063	ug/L			07/08/13 16:48	1
cis-1,2-Dichloroethene	0.86		0.50	0.12	ug/L			07/08/13 16:48	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/08/13 16:48	1
Dibromomethane	ND		0.50	0.17	ug/L			07/08/13 16:48	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/08/13 16:48	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/08/13 16:48	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/08/13 16:48	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/08/13 16:48	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/08/13 16:48	1
Methyl tert-butyl ether	1.3		0.50	0.12	ug/L			07/08/13 16:48	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/08/13 16:48	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 11 Eldia Way

Lab Sample ID: 480-41135-13

Date Collected: 06/27/13 15:30

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/08/13 16:48	1
Naphthalene	ND		0.50	0.060	ug/L			07/08/13 16:48	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/08/13 16:48	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/08/13 16:48	1
o-Xylene	ND		0.50	0.044	ug/L			07/08/13 16:48	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/08/13 16:48	1
Styrene	ND		0.50	0.044	ug/L			07/08/13 16:48	1
t-Butanol	5.9	J	10	2.5	ug/L			07/08/13 16:48	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/08/13 16:48	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/08/13 16:48	1
Toluene	ND		0.50	0.10	ug/L			07/08/13 16:48	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/08/13 16:48	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/08/13 16:48	1
Trichloroethene	ND		0.50	0.060	ug/L			07/08/13 16:48	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/08/13 16:48	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/08/13 16:48	1
Vinyl chloride	0.24	J	0.50	0.059	ug/L			07/08/13 16:48	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/08/13 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		07/08/13 16:48	1
4-Bromofluorobenzene (Surr)	100		80 - 120		07/08/13 16:48	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.3		0.20	0.040	ug/L		07/02/13 09:22	07/02/13 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	88		70 - 130	07/02/13 09:22	07/02/13 19:43	1

Client Sample ID: 180 Old Orchard Rd.

Lab Sample ID: 480-41135-15

Date Collected: 06/27/13 14:20

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/08/13 17:37	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/08/13 17:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/08/13 17:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/08/13 17:37	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/08/13 17:37	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/08/13 17:37	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/08/13 17:37	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/08/13 17:37	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/08/13 17:37	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/08/13 17:37	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 17:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/08/13 17:37	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/08/13 17:37	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/08/13 17:37	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 180 Old Orchard Rd.

Lab Sample ID: 480-41135-15

Date Collected: 06/27/13 14:20

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/08/13 17:37	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/08/13 17:37	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/08/13 17:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/08/13 17:37	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 17:37	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/08/13 17:37	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 17:37	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/08/13 17:37	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/08/13 17:37	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/08/13 17:37	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/08/13 17:37	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/08/13 17:37	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/08/13 17:37	1
Acetone	ND		2.5	0.54	ug/L			07/08/13 17:37	1
Benzene	ND		0.50	0.13	ug/L			07/08/13 17:37	1
Bromobenzene	ND		0.50	0.13	ug/L			07/08/13 17:37	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/08/13 17:37	1
Bromoform	ND		0.50	0.13	ug/L			07/08/13 17:37	1
Bromomethane	ND		0.50	0.051	ug/L			07/08/13 17:37	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/08/13 17:37	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/08/13 17:37	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/08/13 17:37	1
Chloroethane	ND		0.50	0.070	ug/L			07/08/13 17:37	1
Chloroform	0.35	J	0.50	0.14	ug/L			07/08/13 17:37	1
Chloromethane	ND		0.50	0.063	ug/L			07/08/13 17:37	1
cis-1,2-Dichloroethene	0.13	J	0.50	0.12	ug/L			07/08/13 17:37	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/08/13 17:37	1
Dibromomethane	ND		0.50	0.17	ug/L			07/08/13 17:37	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/08/13 17:37	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/08/13 17:37	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/08/13 17:37	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/08/13 17:37	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/08/13 17:37	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/08/13 17:37	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/08/13 17:37	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/08/13 17:37	1
Naphthalene	ND		0.50	0.060	ug/L			07/08/13 17:37	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/08/13 17:37	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/08/13 17:37	1
o-Xylene	ND		0.50	0.044	ug/L			07/08/13 17:37	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/08/13 17:37	1
Styrene	ND		0.50	0.044	ug/L			07/08/13 17:37	1
t-Butanol	ND		10	2.5	ug/L			07/08/13 17:37	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/08/13 17:37	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/08/13 17:37	1
Toluene	ND		0.50	0.10	ug/L			07/08/13 17:37	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/08/13 17:37	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/08/13 17:37	1
Trichloroethene	ND		0.50	0.060	ug/L			07/08/13 17:37	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 180 Old Orchard Rd.

Lab Sample ID: 480-41135-15

Date Collected: 06/27/13 14:20

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/08/13 17:37	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/08/13 17:37	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/08/13 17:37	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/08/13 17:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	108		80 - 120					07/08/13 17:37	1
4-Bromofluorobenzene (Surr)	105		80 - 120					07/08/13 17:37	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.45		0.20	0.040	ug/L		07/02/13 09:22	07/02/13 20:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	88		70 - 130				07/02/13 09:22	07/02/13 20:05	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-41135-17

Date Collected: 06/27/13 08:00

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/08/13 18:26	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/08/13 18:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/08/13 18:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/08/13 18:26	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/08/13 18:26	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/08/13 18:26	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/08/13 18:26	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/08/13 18:26	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/08/13 18:26	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/08/13 18:26	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 18:26	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/08/13 18:26	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/08/13 18:26	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/08/13 18:26	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/08/13 18:26	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/08/13 18:26	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/08/13 18:26	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/08/13 18:26	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 18:26	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/08/13 18:26	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 18:26	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/08/13 18:26	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/08/13 18:26	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/08/13 18:26	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/08/13 18:26	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/08/13 18:26	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/08/13 18:26	1
Acetone	6.2		2.5	0.54	ug/L			07/08/13 18:26	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-41135-17

Date Collected: 06/27/13 08:00

Matrix: Water

Date Received: 06/29/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/08/13 18:26	1
Bromobenzene	ND		0.50	0.13	ug/L			07/08/13 18:26	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/08/13 18:26	1
Bromoform	ND		0.50	0.13	ug/L			07/08/13 18:26	1
Bromomethane	ND		0.50	0.051	ug/L			07/08/13 18:26	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/08/13 18:26	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/08/13 18:26	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/08/13 18:26	1
Chloroethane	ND		0.50	0.070	ug/L			07/08/13 18:26	1
Chloroform	ND		0.50	0.14	ug/L			07/08/13 18:26	1
Chloromethane	ND		0.50	0.063	ug/L			07/08/13 18:26	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/08/13 18:26	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/08/13 18:26	1
Dibromomethane	ND		0.50	0.17	ug/L			07/08/13 18:26	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/08/13 18:26	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/08/13 18:26	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/08/13 18:26	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/08/13 18:26	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/08/13 18:26	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/08/13 18:26	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/08/13 18:26	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/08/13 18:26	1
Naphthalene	ND		0.50	0.060	ug/L			07/08/13 18:26	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/08/13 18:26	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/08/13 18:26	1
o-Xylene	0.12 J		0.50	0.044	ug/L			07/08/13 18:26	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/08/13 18:26	1
Styrene	ND		0.50	0.044	ug/L			07/08/13 18:26	1
t-Butanol	ND		10	2.5	ug/L			07/08/13 18:26	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/08/13 18:26	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/08/13 18:26	1
Toluene	ND		0.50	0.10	ug/L			07/08/13 18:26	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/08/13 18:26	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/08/13 18:26	1
Trichloroethene	ND		0.50	0.060	ug/L			07/08/13 18:26	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/08/13 18:26	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/08/13 18:26	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/08/13 18:26	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/08/13 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		07/08/13 18:26	1
4-Bromofluorobenzene (Surr)	97		80 - 120		07/08/13 18:26	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/02/13 09:22	07/02/13 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	88		70 - 130	07/02/13 09:22	07/02/13 20:31	1

TestAmerica Buffalo

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)
480-41135-1	25 Knowles St.	113	95
480-41135-3	30 Knowles St.	109	98
480-41135-5	325 Schoolhouse Rd. Raw Water	110	105
480-41135-7	325 Schoolhouse Rd. Intermediate	107	101
480-41135-9	325 Schoolhouse Rd. Finish	102	103
480-41135-11	50 Alston Ave.	108	104
480-41135-13	11 Eldia Way	103	100
480-41135-15	180 Old Orchard Rd.	108	105
480-41135-17	Trip Blank	103	97
LCS 480-127104/5	Lab Control Sample	107	100
LCS 480-127781/4	Lab Control Sample	101	102
MB 480-127104/6	Method Blank	109	97
MB 480-127781/5	Method Blank	102	102

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	14DD8 (70-130)
480-41135-1	25 Knowles St.	85
480-41135-3	30 Knowles St.	86
480-41135-5	325 Schoolhouse Rd. Raw Water	83
480-41135-7	325 Schoolhouse Rd. Intermediate	83
480-41135-9	325 Schoolhouse Rd. Finish	89
480-41135-11	50 Alston Ave.	86
480-41135-13	11 Eldia Way	88
480-41135-15	180 Old Orchard Rd.	88
480-41135-17	Trip Blank	88
LCS 200-57855/2-A	Lab Control Sample	86
MB 200-57855/1-A	Method Blank	77

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-127104/6

Matrix: Water

Analysis Batch: 127104

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/02/13 13:30	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/02/13 13:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/02/13 13:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/02/13 13:30	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/02/13 13:30	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/02/13 13:30	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/02/13 13:30	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/02/13 13:30	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/02/13 13:30	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/02/13 13:30	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/02/13 13:30	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/02/13 13:30	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/02/13 13:30	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/02/13 13:30	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/02/13 13:30	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/02/13 13:30	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/02/13 13:30	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/02/13 13:30	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/02/13 13:30	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/02/13 13:30	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/02/13 13:30	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/02/13 13:30	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/02/13 13:30	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/02/13 13:30	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/02/13 13:30	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/02/13 13:30	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/02/13 13:30	1
Acetone	ND		2.5	0.54	ug/L			07/02/13 13:30	1
Benzene	ND		0.50	0.13	ug/L			07/02/13 13:30	1
Bromobenzene	ND		0.50	0.13	ug/L			07/02/13 13:30	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/02/13 13:30	1
Bromoform	ND		0.50	0.13	ug/L			07/02/13 13:30	1
Bromomethane	ND		0.50	0.051	ug/L			07/02/13 13:30	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/02/13 13:30	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/02/13 13:30	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/02/13 13:30	1
Chloroethane	ND		0.50	0.070	ug/L			07/02/13 13:30	1
Chloroform	ND		0.50	0.14	ug/L			07/02/13 13:30	1
Chloromethane	ND		0.50	0.063	ug/L			07/02/13 13:30	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/02/13 13:30	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/02/13 13:30	1
Dibromomethane	ND		0.50	0.17	ug/L			07/02/13 13:30	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/02/13 13:30	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/02/13 13:30	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/02/13 13:30	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/02/13 13:30	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/02/13 13:30	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/02/13 13:30	1

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-127104/6

Matrix: Water

Analysis Batch: 127104

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			07/02/13 13:30	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/02/13 13:30	1
Naphthalene	ND		0.50	0.060	ug/L			07/02/13 13:30	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/02/13 13:30	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/02/13 13:30	1
o-Xylene	ND		0.50	0.044	ug/L			07/02/13 13:30	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/02/13 13:30	1
Styrene	ND		0.50	0.044	ug/L			07/02/13 13:30	1
t-Butanol	ND		10	2.5	ug/L			07/02/13 13:30	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/02/13 13:30	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/02/13 13:30	1
Toluene	ND		0.50	0.10	ug/L			07/02/13 13:30	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/02/13 13:30	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/02/13 13:30	1
Trichloroethene	ND		0.50	0.060	ug/L			07/02/13 13:30	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/02/13 13:30	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/02/13 13:30	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/02/13 13:30	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/02/13 13:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	109		80 - 120		07/02/13 13:30	1
4-Bromofluorobenzene (Surr)	97		80 - 120		07/02/13 13:30	1

Lab Sample ID: LCS 480-127104/5

Matrix: Water

Analysis Batch: 127104

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.19		ug/L		105	70 - 130
1,1,1-Trichloroethane	4.00	4.35		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.46		ug/L		87	70 - 130
1,1,2-Trichloroethane	4.00	3.27		ug/L		82	70 - 130
1,1-Dichloroethane	4.00	3.52		ug/L		88	70 - 130
1,1-Dichloroethane	4.00	2.90		ug/L		72	70 - 130
1,1-Dichloropropene	4.00	3.68		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	4.00	4.27		ug/L		107	70 - 130
1,2,3-Trichloropropane	4.00	3.75		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	4.00	3.91		ug/L		98	70 - 130
1,2,4-Trimethylbenzene	4.00	3.80		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	4.02		ug/L		100	70 - 130
1,2-Dibromoethane	4.00	3.51		ug/L		88	70 - 130
1,2-Dichlorobenzene	4.00	3.70		ug/L		93	70 - 130
1,2-Dichloroethane	4.00	3.83		ug/L		96	70 - 130
1,2-Dichloropropane	4.00	3.21		ug/L		80	70 - 130
1,3,5-Trimethylbenzene	4.00	3.67		ug/L		92	70 - 130
1,3-Dichlorobenzene	4.00	3.55		ug/L		89	70 - 130
1,3-Dichloropropane	4.00	3.46		ug/L		87	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-127104/5

Matrix: Water

Analysis Batch: 127104

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.46		ug/L		86	70 - 130
2,2-Dichloropropane	4.00	5.89	*	ug/L		147	70 - 130
2-Butanone (MEK)	20.0	15.2		ug/L		76	70 - 130
2-Chlorotoluene	4.00	3.58		ug/L		90	70 - 130
4-Chlorotoluene	4.00	3.51		ug/L		88	70 - 130
4-Isopropyltoluene	4.00	3.72		ug/L		93	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	17.1		ug/L		86	70 - 130
Acetone	20.0	18.6		ug/L		93	70 - 130
Benzene	4.00	3.40		ug/L		85	70 - 130
Bromobenzene	4.00	3.42		ug/L		86	70 - 130
Bromochloromethane	4.00	3.70		ug/L		93	70 - 130
Bromoform	4.00	3.94		ug/L		98	70 - 130
Bromomethane	4.00	4.08		ug/L		102	70 - 130
Carbon tetrachloride	4.00	4.08		ug/L		102	70 - 130
Chlorobenzene	4.00	3.51		ug/L		88	70 - 130
Chlorodibromomethane	4.00	3.72		ug/L		93	70 - 130
Chloroethane	4.00	3.70		ug/L		93	70 - 130
Chloroform	4.00	3.79		ug/L		95	70 - 130
Chloromethane	4.00	3.49		ug/L		87	70 - 130
cis-1,2-Dichloroethene	4.00	3.57		ug/L		89	70 - 130
cis-1,3-Dichloropropene	4.00	3.53		ug/L		88	70 - 130
Dibromomethane	4.00	3.70		ug/L		92	70 - 130
Dichlorobromomethane	4.00	3.65		ug/L		91	70 - 130
Dichlorodifluoromethane	4.00	4.43		ug/L		111	70 - 130
Ethylbenzene	4.00	3.54		ug/L		89	70 - 130
Hexachlorobutadiene	4.00	5.28	*	ug/L		132	70 - 130
Isopropylbenzene	4.00	3.73		ug/L		93	70 - 130
Methyl tert-butyl ether	4.00	3.61		ug/L		90	70 - 130
Methylene Chloride	4.00	3.42		ug/L		85	70 - 130
Naphthalene	4.00	3.97		ug/L		99	70 - 130
n-Butylbenzene	4.00	3.75		ug/L		94	70 - 130
N-Propylbenzene	4.00	3.62		ug/L		90	70 - 130
sec-Butylbenzene	4.00	3.59		ug/L		90	70 - 130
Styrene	4.00	3.44		ug/L		86	70 - 130
tert-Butylbenzene	4.00	3.64		ug/L		91	70 - 130
Tetrachloroethene	4.00	3.61		ug/L		90	70 - 130
Toluene	4.00	3.32		ug/L		83	70 - 130
trans-1,2-Dichloroethene	4.00	3.35		ug/L		84	70 - 130
trans-1,3-Dichloropropene	4.00	2.99		ug/L		75	70 - 130
Trichloroethene	4.00	3.41		ug/L		85	70 - 130
Trichlorofluoromethane	4.00	4.57		ug/L		114	70 - 130
Vinyl chloride	4.00	3.80		ug/L		95	70 - 130
Xylenes, Total	12.0	11.1		ug/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	107		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-127781/5

Matrix: Water

Analysis Batch: 127781

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/08/13 12:08	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/08/13 12:08	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/08/13 12:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/08/13 12:08	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/08/13 12:08	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/08/13 12:08	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/08/13 12:08	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/08/13 12:08	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/08/13 12:08	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/08/13 12:08	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 12:08	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/08/13 12:08	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/08/13 12:08	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/08/13 12:08	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/08/13 12:08	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/08/13 12:08	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/08/13 12:08	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/08/13 12:08	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 12:08	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/08/13 12:08	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/08/13 12:08	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/08/13 12:08	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/08/13 12:08	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/08/13 12:08	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/08/13 12:08	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/08/13 12:08	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/08/13 12:08	1
Acetone	ND		2.5	0.54	ug/L			07/08/13 12:08	1
Benzene	ND		0.50	0.13	ug/L			07/08/13 12:08	1
Bromobenzene	ND		0.50	0.13	ug/L			07/08/13 12:08	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/08/13 12:08	1
Bromoform	ND		0.50	0.13	ug/L			07/08/13 12:08	1
Bromomethane	ND		0.50	0.051	ug/L			07/08/13 12:08	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/08/13 12:08	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/08/13 12:08	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/08/13 12:08	1
Chloroethane	ND		0.50	0.070	ug/L			07/08/13 12:08	1
Chloroform	ND		0.50	0.14	ug/L			07/08/13 12:08	1
Chloromethane	ND		0.50	0.063	ug/L			07/08/13 12:08	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/08/13 12:08	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/08/13 12:08	1
Dibromomethane	ND		0.50	0.17	ug/L			07/08/13 12:08	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/08/13 12:08	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/08/13 12:08	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/08/13 12:08	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/08/13 12:08	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/08/13 12:08	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/08/13 12:08	1

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-127781/5

Matrix: Water

Analysis Batch: 127781

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			07/08/13 12:08	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/08/13 12:08	1
Naphthalene	ND		0.50	0.060	ug/L			07/08/13 12:08	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/08/13 12:08	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/08/13 12:08	1
o-Xylene	ND		0.50	0.044	ug/L			07/08/13 12:08	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/08/13 12:08	1
Styrene	ND		0.50	0.044	ug/L			07/08/13 12:08	1
t-Butanol	ND		10	2.5	ug/L			07/08/13 12:08	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/08/13 12:08	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/08/13 12:08	1
Toluene	ND		0.50	0.10	ug/L			07/08/13 12:08	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/08/13 12:08	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/08/13 12:08	1
Trichloroethene	ND		0.50	0.060	ug/L			07/08/13 12:08	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/08/13 12:08	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/08/13 12:08	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/08/13 12:08	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/08/13 12:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		07/08/13 12:08	1
4-Bromofluorobenzene (Surr)	102		80 - 120		07/08/13 12:08	1

Lab Sample ID: LCS 480-127781/4

Matrix: Water

Analysis Batch: 127781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.28		ug/L		82	70 - 130
1,1,1-Trichloroethane	4.00	3.36		ug/L		84	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.19		ug/L		80	70 - 130
1,1,2-Trichloroethane	4.00	3.23		ug/L		81	70 - 130
1,1-Dichloroethane	4.00	3.22		ug/L		80	70 - 130
1,1-Dichloroethene	4.00	2.85		ug/L		71	70 - 130
1,1-Dichloropropene	4.00	3.48		ug/L		87	70 - 130
1,2,3-Trichlorobenzene	4.00	3.20		ug/L		80	70 - 130
1,2,3-Trichloropropane	4.00	3.28		ug/L		82	70 - 130
1,2,4-Trichlorobenzene	4.00	3.29		ug/L		82	70 - 130
1,2,4-Trimethylbenzene	4.00	3.32		ug/L		83	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.95		ug/L		99	70 - 130
1,2-Dibromoethane	4.00	3.32		ug/L		83	70 - 130
1,2-Dichlorobenzene	4.00	3.21		ug/L		80	70 - 130
1,2-Dichloroethane	4.00	3.14		ug/L		79	70 - 130
1,2-Dichloropropane	4.00	3.25		ug/L		81	70 - 130
1,3,5-Trimethylbenzene	4.00	3.24		ug/L		81	70 - 130
1,3-Dichlorobenzene	4.00	3.20		ug/L		80	70 - 130
1,3-Dichloropropane	4.00	3.36		ug/L		84	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-127781/4

Matrix: Water

Analysis Batch: 127781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.23		ug/L		81	70 - 130
2,2-Dichloropropane	4.00	3.10		ug/L		78	70 - 130
2-Butanone (MEK)	20.0	17.5		ug/L		87	70 - 130
2-Chlorotoluene	4.00	3.18		ug/L		80	70 - 130
4-Chlorotoluene	4.00	3.15		ug/L		79	70 - 130
4-Isopropyltoluene	4.00	3.24		ug/L		81	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	16.4		ug/L		82	70 - 130
Acetone	20.0	17.6		ug/L		88	70 - 130
Benzene	4.00	3.26		ug/L		81	70 - 130
Bromobenzene	4.00	3.24		ug/L		81	70 - 130
Bromochloromethane	4.00	3.49		ug/L		87	70 - 130
Bromoform	4.00	3.31		ug/L		83	70 - 130
Bromomethane	4.00	3.30		ug/L		82	70 - 130
Carbon tetrachloride	4.00	3.33		ug/L		83	70 - 130
Chlorobenzene	4.00	3.25		ug/L		81	70 - 130
Chlorodibromomethane	4.00	3.28		ug/L		82	70 - 130
Chloroethane	4.00	3.45		ug/L		86	70 - 130
Chloroform	4.00	3.33		ug/L		83	70 - 130
Chloromethane	4.00	3.34		ug/L		83	70 - 130
cis-1,2-Dichloroethene	4.00	3.34		ug/L		84	70 - 130
cis-1,3-Dichloropropene	4.00	3.11		ug/L		78	70 - 130
Dibromomethane	4.00	3.26		ug/L		82	70 - 130
Dichlorobromomethane	4.00	3.17		ug/L		79	70 - 130
Dichlorodifluoromethane	4.00	3.63		ug/L		91	70 - 130
Ethylbenzene	4.00	3.26		ug/L		81	70 - 130
Hexachlorobutadiene	4.00	3.06		ug/L		76	70 - 130
Isopropylbenzene	4.00	3.32		ug/L		83	70 - 130
Methyl tert-butyl ether	4.00	3.55		ug/L		89	70 - 130
Methylene Chloride	4.00	3.29		ug/L		82	70 - 130
Naphthalene	4.00	3.34		ug/L		84	70 - 130
n-Butylbenzene	4.00	3.25		ug/L		81	70 - 130
N-Propylbenzene	4.00	3.25		ug/L		81	70 - 130
sec-Butylbenzene	4.00	3.26		ug/L		81	70 - 130
Styrene	4.00	3.30		ug/L		82	70 - 130
tert-Butylbenzene	4.00	3.27		ug/L		82	70 - 130
Tetrachloroethene	4.00	3.26		ug/L		81	70 - 130
Toluene	4.00	3.19		ug/L		80	70 - 130
trans-1,2-Dichloroethene	4.00	3.27		ug/L		82	70 - 130
trans-1,3-Dichloropropene	4.00	3.10		ug/L		77	70 - 130
Trichloroethene	4.00	3.17		ug/L		79	70 - 130
Trichlorofluoromethane	4.00	3.41		ug/L		85	70 - 130
Vinyl chloride	4.00	3.42		ug/L		85	70 - 130
Xylenes, Total	12.0	9.80		ug/L		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	101		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-57855/1-A

Matrix: Water

Analysis Batch: 57875

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57855

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/02/13 09:22	07/02/13 17:00	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	77		70 - 130				07/02/13 09:22	07/02/13 17:00	1

Lab Sample ID: LCS 200-57855/2-A

Matrix: Water

Analysis Batch: 57875

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.200	0.173	J	ug/L		87	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	86		70 - 130				

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

GC/MS VOA

Analysis Batch: 127104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-41135-1	25 Knowles St.	Total/NA	Water	524.2	
480-41135-3	30 Knowles St.	Total/NA	Water	524.2	
480-41135-5	325 Schoolhouse Rd. Raw Water	Total/NA	Water	524.2	
480-41135-7	325 Schoolhouse Rd. Intermediate	Total/NA	Water	524.2	
LCS 480-127104/5	Lab Control Sample	Total/NA	Water	524.2	
MB 480-127104/6	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 127781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-41135-9	325 Schoolhouse Rd. Finish	Total/NA	Water	524.2	
480-41135-11	50 Alston Ave.	Total/NA	Water	524.2	
480-41135-13	11 Eldia Way	Total/NA	Water	524.2	
480-41135-15	180 Old Orchard Rd.	Total/NA	Water	524.2	
480-41135-17	Trip Blank	Total/NA	Water	524.2	
LCS 480-127781/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-127781/5	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 57855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-41135-1	25 Knowles St.	Total/NA	Water	3535A	
480-41135-3	30 Knowles St.	Total/NA	Water	3535A	
480-41135-5	325 Schoolhouse Rd. Raw Water	Total/NA	Water	3535A	
480-41135-7	325 Schoolhouse Rd. Intermediate	Total/NA	Water	3535A	
480-41135-9	325 Schoolhouse Rd. Finish	Total/NA	Water	3535A	
480-41135-11	50 Alston Ave.	Total/NA	Water	3535A	
480-41135-13	11 Eldia Way	Total/NA	Water	3535A	
480-41135-15	180 Old Orchard Rd.	Total/NA	Water	3535A	
480-41135-17	Trip Blank	Total/NA	Water	3535A	
LCS 200-57855/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-57855/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 57875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-41135-1	25 Knowles St.	Total/NA	Water	522 MOD	57855
480-41135-3	30 Knowles St.	Total/NA	Water	522 MOD	57855
480-41135-7	325 Schoolhouse Rd. Intermediate	Total/NA	Water	522 MOD	57855
480-41135-9	325 Schoolhouse Rd. Finish	Total/NA	Water	522 MOD	57855
480-41135-11	50 Alston Ave.	Total/NA	Water	522 MOD	57855
480-41135-13	11 Eldia Way	Total/NA	Water	522 MOD	57855
480-41135-15	180 Old Orchard Rd.	Total/NA	Water	522 MOD	57855
480-41135-17	Trip Blank	Total/NA	Water	522 MOD	57855
LCS 200-57855/2-A	Lab Control Sample	Total/NA	Water	522 MOD	57855
MB 200-57855/1-A	Method Blank	Total/NA	Water	522 MOD	57855

Analysis Batch: 57932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-41135-5	325 Schoolhouse Rd. Raw Water	Total/NA	Water	522 MOD	57855

TestAmerica Buffalo

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 25 Knowles St.

Date Collected: 06/27/13 11:40

Date Received: 06/29/13 02:00

Lab Sample ID: 480-41135-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	127104	07/02/13 18:21	TRB	TAL BUF
Total/NA	Prep	3535A			57855	07/02/13 09:22	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	57875	07/02/13 17:21	RJH	TAL BUR

Client Sample ID: 30 Knowles St.

Date Collected: 06/27/13 10:40

Date Received: 06/29/13 02:00

Lab Sample ID: 480-41135-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	127104	07/02/13 19:12	TRB	TAL BUF
Total/NA	Prep	3535A			57855	07/02/13 09:22	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	57875	07/02/13 17:46	RJH	TAL BUR

Client Sample ID: 325 Schoolhouse Rd. Raw Water

Date Collected: 06/27/13 12:45

Date Received: 06/29/13 02:00

Lab Sample ID: 480-41135-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	127104	07/02/13 20:03	TRB	TAL BUF
Total/NA	Prep	3535A			57855	07/02/13 09:22	JAB	TAL BUR
Total/NA	Analysis	522 MOD		2	57932	07/03/13 11:47	RJH	TAL BUR

Client Sample ID: 325 Schoolhouse Rd. Intermediate

Date Collected: 06/27/13 13:00

Date Received: 06/29/13 02:00

Lab Sample ID: 480-41135-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	127104	07/02/13 23:04	TRB	TAL BUF
Total/NA	Prep	3535A			57855	07/02/13 09:22	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	57875	07/02/13 18:32	RJH	TAL BUR

Client Sample ID: 325 Schoolhouse Rd. Finish

Date Collected: 06/27/13 13:15

Date Received: 06/29/13 02:00

Lab Sample ID: 480-41135-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	127781	07/08/13 15:10	TRB	TAL BUF
Total/NA	Prep	3535A			57855	07/02/13 09:22	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	57875	07/02/13 18:55	RJH	TAL BUR

TestAmerica Buffalo

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Client Sample ID: 50 Alston Ave.

Lab Sample ID: 480-41135-11

Date Collected: 06/27/13 09:20

Matrix: Water

Date Received: 06/29/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	127781	07/08/13 15:59	TRB	TAL BUF
Total/NA	Prep	3535A			57855	07/02/13 09:22	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	57875	07/02/13 19:17	RJH	TAL BUR

Client Sample ID: 11 Eldia Way

Lab Sample ID: 480-41135-13

Date Collected: 06/27/13 15:30

Matrix: Water

Date Received: 06/29/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	127781	07/08/13 16:48	TRB	TAL BUF
Total/NA	Prep	3535A			57855	07/02/13 09:22	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	57875	07/02/13 19:43	RJH	TAL BUR

Client Sample ID: 180 Old Orchard Rd.

Lab Sample ID: 480-41135-15

Date Collected: 06/27/13 14:20

Matrix: Water

Date Received: 06/29/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	127781	07/08/13 17:37	TRB	TAL BUF
Total/NA	Prep	3535A			57855	07/02/13 09:22	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	57875	07/02/13 20:05	RJH	TAL BUR

Client Sample ID: Trip Blank

Lab Sample ID: 480-41135-17

Date Collected: 06/27/13 08:00

Matrix: Water

Date Received: 06/29/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	127781	07/08/13 18:26	TRB	TAL BUF
Total/NA	Prep	3535A			57855	07/02/13 09:22	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	57875	07/02/13 20:31	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13 *
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13 *
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-41135-1	25 Knowles St.	Water	06/27/13 11:40	06/29/13 02:00
480-41135-3	30 Knowles St.	Water	06/27/13 10:40	06/29/13 02:00
480-41135-5	325 Schoolhouse Rd. Raw Water	Water	06/27/13 12:45	06/29/13 02:00
480-41135-7	325 Schoolhouse Rd. Intermediate	Water	06/27/13 13:00	06/29/13 02:00
480-41135-9	325 Schoolhouse Rd. Finish	Water	06/27/13 13:15	06/29/13 02:00
480-41135-11	50 Alston Ave.	Water	06/27/13 09:20	06/29/13 02:00
480-41135-13	11 Eldia Way	Water	06/27/13 15:30	06/29/13 02:00
480-41135-15	180 Old Orchard Rd.	Water	06/27/13 14:20	06/29/13 02:00
480-41135-17	Trip Blank	Water	06/27/13 08:00	06/29/13 02:00

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: MA MCP

TestAmerica Laboratories, Inc.

Client Contact Bennett Environmental Associates, Inc. Address: 1573 Main St. / P.O. Box 1743 City/State/Zip: Brewster, MA 02631 Phone: 508-896-1706 FAX: 508-896-5109 Project Name: Eastham Landfill Site: Town of Eastham P O #: BEA09-10104		Project Manager: David Bennett Tel/Fax: 508-896-1706 Analysis Turnaround Time Calendar (C) or Work Days (W) C ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Site Contact: Lab Contact: Carrier:		Date: COC No: 1 of 2 COCs	
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes:
25 Knowles St.		6/27/2013	11:40 am	G	W	5	
25 Knowles St. Duplicate		6/27/2013	11:40 am	G	W	4	
30 Knowles St.		6/27/2013	10:40 am	G	W	5	
30 Knowles St. Duplicate		6/27/2013	10:40 am	G	W	4	
325 Schoolhouse Rd. Raw water		6/27/2013	12:45 pm	G	W	5	
325 Schoolhouse Rd. Raw water Duplicate		6/27/2013	12:45 pm	G	W	4	
325 Schoolhouse Rd. Intermediate		6/27/2013	1:00 pm	G	W	5	
325 Schoolhouse Rd. Intermediate Duplicate		6/27/2013	1:00 pm	G	W	4	
325 Schoolhouse Rd. Finish		6/27/2013	1:15 pm	G	W	5	
325 Schoolhouse Rd. Finish Duplicate		6/27/2013	1:15 pm	G	W	4	
50 Alston Ave.		6/27/2013	9:20 am	G	W	5	
50 Alston Ave. Duplicate		6/27/2013	9:20 am	G	W	4	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other							
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant		☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months					
Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com							
Relinquished by: <i>[Signature]</i>		Company: BEA	Date/Time: 6/27/13 4:30	Received by: BEA office		Company:	Date/Time:
Relinquished by: <i>[Signature]</i>		Company: BEA	Date/Time: 6/28/13 9:40 AM	Received by: <i>[Signature]</i>		Company: <i>[Signature]</i>	Date/Time: 6/28/13 9:40
Relinquished by: <i>[Signature]</i>		Company: <i>[Signature]</i>	Date/Time: 6/28/13 1:00	Received in Laboratory by: <i>[Signature]</i>		Company: <i>[Signature]</i>	Date/Time: 6-29-13 0200

1.9#1

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: MA MCP

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: David Bennett Tel/Fax: 508-896-1706		Site Contact:		Date:	
Bennett Environmental Associates, Inc.		Tel/Fax: 508-896-1706		Lab Contact:		Carrier:	
Address: 1573 Main St. / P.O. Box 1743		Analysis Turnaround Time		VOCs via 524.2		COC No: 2 of 2 COCs	
City/State/Zip: Brewster, MA 02631		Calendar (C) or Work Days (W) C		Composite = C / Grab = G		For Lab Use Only:	
Phone: 508-896-1706		TAT if different from Below		Filtered Sample (Y / N)		Walk-in Client:	
FAX: 508-896-5109		☒ 2 weeks		1,4-Dioxane via 522.1 Mod		Lab Sampling:	
Project Name: Eastham Landfill		☐ 1 week				Job / SDG No.: BEA11-10104	
Site: Town of Eastham		☐ 2 days				Sampler: JTW	
P.O. #: BEA09-10104		☐ 1 day				Sample Specific Notes:	
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.		
11 Eldia Way	6/27/2013	3:30 pm	G	W	5		
11 Eldia Way Duplicate	6/27/2013	3:30 pm	G	W	4		
180 Old Orchard Rd.	6/27/2013	2:20 pm	G	W	5		
181 Old Orchard Rd. Duplicate	6/27/2013	2:20 pm	G	W	4		
Trip Blank	6/27/2013	8:00 am	G	W	5		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other						1,2,1,2	
Possible Hazard Identification: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown							
Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com							

Relinquished by: <i>[Signature]</i>	Company: BEA	Date/Time: 6/27/13 4:20	Received by: BEA	Company: BEA	Date/Time:
Relinquished by: <i>[Signature]</i>	Company: BEA	Date/Time: 6/27/13 4:40	Received by: <i>[Signature]</i>	Company: TAC	Date/Time: 6/28/13 9:40
Relinquished by: <i>[Signature]</i>	Company: <i>[Signature]</i>	Date/Time: 6/28/13 10:00	Received in Laboratory by: <i>[Signature]</i>	Company: TAC	Date/Time: 6/28/13 10:00

1.9 #1

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-41135-1

Login Number: 41135

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-41135-1

Login Number: 41135

List Source: TestAmerica Burlington

List Number: 1

List Creation: 07/01/13 10:25 AM

Creator: Poucher, Stephanie A

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	No numbers
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.0°C IR GUN ID 181. CF -0.4
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	Received project as a subcontract.
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	Check done at department level as required.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	Check done at department level as required.
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-41135-2

Client Project/Site: Eastham Landfill IRA

For:

Bennett Environmental Associates, Inc.

1573 Main St.

Brewster, Massachusetts 02631

Attn: David Bennett



Authorized for release by:

7/18/2013 3:49:14 PM

Steve Hartmann, Lab Director

steve.hartmann@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-2

Job ID: 480-41135-2

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-41135-2

Comments

This is a stand alone report for Samples 25 Knowles St. duplicate (480-41135-2), 30 Knowles St. duplicate (480-41135-4), 325 Schoolhouse Rd. Raw Water duplicate (480-41135-6), and 11 Eldia Way duplicate (480-41135-14) that were activated for analysis on 7/12/13. This analysis was originally on hold per client request.

Receipt

The samples were received on 6/29/2013 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9° C.

GC/MS Semi VOA

No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-2

Client Sample ID: 25 Knowles St. Duplicate

Lab Sample ID: 480-41135-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.0		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 30 Knowles St. Duplicate

Lab Sample ID: 480-41135-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	5.1		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 325 Schoolhouse Rd. Raw Water Duplicate

Lab Sample ID: 480-41135-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	8.8		0.40	0.080	ug/L	2		522 MOD	Total/NA

Client Sample ID: 11 Eldia Way Duplicate

Lab Sample ID: 480-41135-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.4		0.20	0.040	ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-2

Client Sample ID: 25 Knowles St. Duplicate

Date Collected: 06/27/13 11:40

Date Received: 06/29/13 02:00

Lab Sample ID: 480-41135-2

Matrix: Water

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.0		0.20	0.040	ug/L		07/15/13 09:01	07/15/13 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	92		70 - 130				07/15/13 09:01	07/15/13 14:59	1

Client Sample ID: 30 Knowles St. Duplicate

Date Collected: 06/27/13 10:40

Date Received: 06/29/13 02:00

Lab Sample ID: 480-41135-4

Matrix: Water

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	5.1		0.20	0.040	ug/L		07/15/13 09:01	07/15/13 15:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	92		70 - 130				07/15/13 09:01	07/15/13 15:24	1

Client Sample ID: 325 Schoolhouse Rd. Raw Water Duplicate

Date Collected: 06/27/13 12:45

Date Received: 06/29/13 02:00

Lab Sample ID: 480-41135-6

Matrix: Water

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	8.8		0.40	0.080	ug/L		07/15/13 09:01	07/15/13 15:46	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	87		70 - 130				07/15/13 09:01	07/15/13 15:46	2

Client Sample ID: 11 Eldia Way Duplicate

Date Collected: 06/27/13 15:30

Date Received: 06/29/13 02:00

Lab Sample ID: 480-41135-14

Matrix: Water

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.4		0.20	0.040	ug/L		07/15/13 09:01	07/15/13 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	71		70 - 130				07/15/13 09:01	07/15/13 16:31	1

TestAmerica Buffalo

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-2

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	14DD8 (70-130)	
480-41135-2	25 Knowles St. Duplicate	92	
480-41135-4	30 Knowles St. Duplicate	92	
480-41135-6	325 Schoolhouse Rd. Raw Water Di	87	
480-41135-14	11 Eldia Way Duplicate	71	
LCS 200-58397/2-A	Lab Control Sample	94	
MB 200-58397/1-A	Method Blank	99	
Surrogate Legend			
14DD8 = 1,4-Dioxane-d8 (Surr)			

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-2

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-58397/1-A

Matrix: Water

Analysis Batch: 58413

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/15/13 09:01	07/15/13 14:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	99		70 - 130				07/15/13 09:01	07/15/13 14:15	1

Lab Sample ID: LCS 200-58397/2-A

Matrix: Water

Analysis Batch: 58413

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	8.00	7.65		ug/L		96	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	94		70 - 130				

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-2

GC/MS Semi VOA

Prep Batch: 58397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-41135-2	25 Knowles St. Duplicate	Total/NA	Water	3535A	
480-41135-4	30 Knowles St. Duplicate	Total/NA	Water	3535A	
480-41135-6	325 Schoolhouse Rd. Raw Water Duplicate	Total/NA	Water	3535A	
480-41135-14	11 Eldia Way Duplicate	Total/NA	Water	3535A	
LCS 200-58397/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-58397/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 58413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-41135-2	25 Knowles St. Duplicate	Total/NA	Water	522 MOD	58397
480-41135-4	30 Knowles St. Duplicate	Total/NA	Water	522 MOD	58397
480-41135-6	325 Schoolhouse Rd. Raw Water Duplicate	Total/NA	Water	522 MOD	58397
480-41135-14	11 Eldia Way Duplicate	Total/NA	Water	522 MOD	58397
LCS 200-58397/2-A	Lab Control Sample	Total/NA	Water	522 MOD	58397
MB 200-58397/1-A	Method Blank	Total/NA	Water	522 MOD	58397

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-2

Client Sample ID: 25 Knowles St. Duplicate

Date Collected: 06/27/13 11:40

Date Received: 06/29/13 02:00

Lab Sample ID: 480-41135-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			58397	07/15/13 09:01	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	58413	07/15/13 14:59	RJH	TAL BUR

Client Sample ID: 30 Knowles St. Duplicate

Date Collected: 06/27/13 10:40

Date Received: 06/29/13 02:00

Lab Sample ID: 480-41135-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			58397	07/15/13 09:01	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	58413	07/15/13 15:24	RJH	TAL BUR

Client Sample ID: 325 Schoolhouse Rd. Raw Water Duplicate

Date Collected: 06/27/13 12:45

Date Received: 06/29/13 02:00

Lab Sample ID: 480-41135-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			58397	07/15/13 09:01	JAB	TAL BUR
Total/NA	Analysis	522 MOD		2	58413	07/15/13 15:46	RJH	TAL BUR

Client Sample ID: 11 Eldia Way Duplicate

Date Collected: 06/27/13 15:30

Date Received: 06/29/13 02:00

Lab Sample ID: 480-41135-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			58397	07/15/13 09:01	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	58413	07/15/13 16:31	RJH	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-2

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13 *
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-13 *
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13 *
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13 *

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-2

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-2

Method	Method Description	Protocol	Laboratory
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-41135-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-41135-2	25 Knowles St. Duplicate	Water	06/27/13 11:40	06/29/13 02:00
480-41135-4	30 Knowles St. Duplicate	Water	06/27/13 10:40	06/29/13 02:00
480-41135-6	325 Schoolhouse Rd. Raw Water Duplicate	Water	06/27/13 12:45	06/29/13 02:00
480-41135-14	11 Eldia Way Duplicate	Water	06/27/13 15:30	06/29/13 02:00

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: MA MCP

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: David Bennett Tel/Fax: 508-896-1706		Site Contact:		Date:		COC No:	
Bennett Environmental Associates, Inc.				Lab Contact:		Carrier:		1 of 2 COCs	
Address: 1573 Main St. / P.O. Box 1743									
City/State/Zip: Brewster, MA 02631									
Phone: 508-896-1706									
FAX: 508-896-5109									
Project Name: Eastham Landfill									
Site: Town of Eastham									
P O #: BEA09-10104									
Analysis Turnaround Time									
Calendar (C) or Work Days (W) C									
TAT if different from Below									
☒ 2 weeks									
☐ 1 week									
☐ 2 days									
☐ 1 day									
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y/N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod
25 Knowles St.	6/27/2013	11:40 am	G	W	5	N	G	3	2
25 Knowles St. Duplicate	6/27/2013	11:40 am	G	W	4	N	G	3	1
30 Knowles St.	6/27/2013	10:40 am	G	W	5	N	G	3	2
30 Knowles St. Duplicate	6/27/2013	10:40 am	G	W	4	N	G	3	1
325 Schoolhouse Rd. Raw water	6/27/2013	12:45 pm	G	W	5	N	G	3	2
325 Schoolhouse Rd. Raw water Duplicate	6/27/2013	12:45 pm	G	W	4	N	G	3	1
325 Schoolhouse Rd. Intermediate	6/27/2013	1:00 pm	G	W	5	N	G	3	2
325 Schoolhouse Rd. Intermediate Duplicate	6/27/2013	1:00 pm	G	W	4	N	G	3	1
325 Schoolhouse Rd. Finish	6/27/2013	1:15 pm	G	W	5	N	G	3	2
325 Schoolhouse Rd. Finish Duplicate	6/27/2013	1:15 pm	G	W	4	N	G	3	1
50 Alston Ave.	6/27/2013	9:20 am	G	W	5	N	G	3	2
50 Alston Ave. Duplicate	6/27/2013	9:20 am	G	W	4	N	G	3	1
						1,2,1,2			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown									
Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com									
Relinquished by:	Company: BEA	Date/Time: 6/27/13 4:30	Received by:	Company: BEA office	Date/Time:	1.9#1			
Relinquished by:	Company: BEA	Date/Time: 6/28/13 9:40 AM	Received by:	Company: TAC	Date/Time: 6/28/13 9:40				
Relinquished by:	Company: TAC	Date/Time: 6/28/13 1:00	Received in Laboratory by:	Company: TAC	Date/Time: 6-29-13 0200				

TestAmerica Laboratories, Inc.

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

Relinquished by: <u>D. J. HEN</u>	Company: <u>SEA</u>	Date/Time: <u>6/28/13 1:40 PM</u>	Received by: <u>M.C.</u>	Company: <u>TAL</u>	Date/Time: <u>6/28/13 9:40</u>
Relinquished by: <u>M.C.</u>	Company: <u>TAL</u>	Date/Time: <u>6/28/13 1:50 PM</u>	Received in Laboratory by: <u>M.C.</u>	Company: <u>TAL</u>	Date/Time: <u>6/29/13 0200</u>

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-41135-2

Login Number: 41135

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-41135-2

Login Number: 41135

List Source: TestAmerica Burlington

List Number: 1

List Creation: 07/01/13 10:25 AM

Creator: Poucher, Stephanie A

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	No numbers
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.0°C IR GUN ID 181. CF -0.4
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	Received project as a subcontract.
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	Check done at department level as required.
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-42477-1

Client Project/Site: Eastham Landfill IRA

For:

Bennett Environmental Associates, Inc.

1573 Main St.

Brewster, Massachusetts 02631

Attn: David Bennett



Authorized for release by:

7/31/2013 10:50:38 AM

Steve Hartmann, Lab Director

steve.hartmann@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Job ID: 480-42477-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-42477-1

Receipt

The samples were received on 7/24/2013 2:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA

No analytical or quality issues were noted.

GC/MS Semi VOA

No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 255 Schoolhouse Road

Lab Sample ID: 480-42477-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.88	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloromethane	0.076	J	0.50	0.063	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.055	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 115 Fairview Ave

Lab Sample ID: 480-42477-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.56		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 65 Surrey Drive

Lab Sample ID: 480-42477-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.65	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.51		0.50	0.14	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.41	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.047	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 55 Redberry Lane

Lab Sample ID: 480-42477-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.68	J	2.5	0.54	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.047	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 30 Deerfield Lane

Lab Sample ID: 480-42477-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.89	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.17	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 115 Alston Ave

Lab Sample ID: 480-42477-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.69		0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.12	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 70 Glacier Hills

Lab Sample ID: 480-42477-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.5	J	2.5	0.54	ug/L	1		524.2	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-42477-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.1	J	2.5	0.54	ug/L	1		524.2	Total/NA
Methylene Chloride	0.25	J	0.50	0.25	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 255 Schoolhouse Road

Lab Sample ID: 480-42477-1

Date Collected: 07/22/13 09:40

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/24/13 15:03	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/24/13 15:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/24/13 15:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/24/13 15:03	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/24/13 15:03	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/24/13 15:03	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/24/13 15:03	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/24/13 15:03	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/24/13 15:03	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/24/13 15:03	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 15:03	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/24/13 15:03	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/24/13 15:03	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/24/13 15:03	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/24/13 15:03	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/24/13 15:03	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/24/13 15:03	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/24/13 15:03	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 15:03	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/24/13 15:03	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 15:03	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/24/13 15:03	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/24/13 15:03	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 15:03	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 15:03	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/24/13 15:03	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/24/13 15:03	1
Acetone	0.88	J	2.5	0.54	ug/L			07/24/13 15:03	1
Benzene	ND		0.50	0.13	ug/L			07/24/13 15:03	1
Bromobenzene	ND		0.50	0.13	ug/L			07/24/13 15:03	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/24/13 15:03	1
Bromoform	ND		0.50	0.13	ug/L			07/24/13 15:03	1
Bromomethane	ND		0.50	0.051	ug/L			07/24/13 15:03	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/24/13 15:03	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/24/13 15:03	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/24/13 15:03	1
Chloroethane	ND		0.50	0.070	ug/L			07/24/13 15:03	1
Chloroform	ND		0.50	0.14	ug/L			07/24/13 15:03	1
Chloromethane	0.076	J	0.50	0.063	ug/L			07/24/13 15:03	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/24/13 15:03	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/24/13 15:03	1
Dibromomethane	ND		0.50	0.17	ug/L			07/24/13 15:03	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/24/13 15:03	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/24/13 15:03	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/24/13 15:03	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/24/13 15:03	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/24/13 15:03	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/24/13 15:03	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/24/13 15:03	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 255 Schoolhouse Road

Lab Sample ID: 480-42477-1

Date Collected: 07/22/13 09:40

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/24/13 15:03	1
Naphthalene	ND		0.50	0.060	ug/L			07/24/13 15:03	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/24/13 15:03	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/24/13 15:03	1
o-Xylene	ND		0.50	0.044	ug/L			07/24/13 15:03	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/24/13 15:03	1
Styrene	ND		0.50	0.044	ug/L			07/24/13 15:03	1
t-Butanol	ND		10	2.5	ug/L			07/24/13 15:03	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/24/13 15:03	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/24/13 15:03	1
Toluene	ND		0.50	0.10	ug/L			07/24/13 15:03	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/24/13 15:03	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/24/13 15:03	1
Trichloroethene	ND		0.50	0.060	ug/L			07/24/13 15:03	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/24/13 15:03	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/24/13 15:03	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/24/13 15:03	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/24/13 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		07/24/13 15:03	1
4-Bromofluorobenzene (Surr)	98		80 - 120		07/24/13 15:03	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.055	J	0.20	0.040	ug/L		07/24/13 22:25	07/26/13 00:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	83		70 - 130	07/24/13 22:25	07/26/13 00:19	1

Client Sample ID: 115 Fairview Ave

Lab Sample ID: 480-42477-3

Date Collected: 07/22/13 10:25

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/24/13 15:54	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/24/13 15:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/24/13 15:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/24/13 15:54	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/24/13 15:54	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/24/13 15:54	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/24/13 15:54	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/24/13 15:54	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/24/13 15:54	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/24/13 15:54	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 15:54	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/24/13 15:54	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/24/13 15:54	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/24/13 15:54	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 115 Fairview Ave

Lab Sample ID: 480-42477-3

Date Collected: 07/22/13 10:25

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/24/13 15:54	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/24/13 15:54	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/24/13 15:54	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/24/13 15:54	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 15:54	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/24/13 15:54	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 15:54	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/24/13 15:54	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/24/13 15:54	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 15:54	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 15:54	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/24/13 15:54	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/24/13 15:54	1
Acetone	1.2	J	2.5	0.54	ug/L			07/24/13 15:54	1
Benzene	ND		0.50	0.13	ug/L			07/24/13 15:54	1
Bromobenzene	ND		0.50	0.13	ug/L			07/24/13 15:54	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/24/13 15:54	1
Bromoform	ND		0.50	0.13	ug/L			07/24/13 15:54	1
Bromomethane	ND		0.50	0.051	ug/L			07/24/13 15:54	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/24/13 15:54	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/24/13 15:54	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/24/13 15:54	1
Chloroethane	ND		0.50	0.070	ug/L			07/24/13 15:54	1
Chloroform	0.56		0.50	0.14	ug/L			07/24/13 15:54	1
Chloromethane	ND		0.50	0.063	ug/L			07/24/13 15:54	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/24/13 15:54	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/24/13 15:54	1
Dibromomethane	ND		0.50	0.17	ug/L			07/24/13 15:54	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/24/13 15:54	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/24/13 15:54	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/24/13 15:54	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/24/13 15:54	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/24/13 15:54	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/24/13 15:54	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/24/13 15:54	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/24/13 15:54	1
Naphthalene	ND		0.50	0.060	ug/L			07/24/13 15:54	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/24/13 15:54	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/24/13 15:54	1
o-Xylene	ND		0.50	0.044	ug/L			07/24/13 15:54	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/24/13 15:54	1
Styrene	ND		0.50	0.044	ug/L			07/24/13 15:54	1
t-Butanol	ND		10	2.5	ug/L			07/24/13 15:54	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/24/13 15:54	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/24/13 15:54	1
Toluene	ND		0.50	0.10	ug/L			07/24/13 15:54	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/24/13 15:54	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/24/13 15:54	1
Trichloroethene	ND		0.50	0.060	ug/L			07/24/13 15:54	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 115 Fairview Ave

Lab Sample ID: 480-42477-3

Date Collected: 07/22/13 10:25

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/24/13 15:54	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/24/13 15:54	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/24/13 15:54	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/24/13 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120					07/24/13 15:54	1
4-Bromofluorobenzene (Surr)	98		80 - 120					07/24/13 15:54	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/24/13 22:25	07/26/13 00:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	99		70 - 130				07/24/13 22:25	07/26/13 00:42	1

Client Sample ID: 65 Surrey Drive

Lab Sample ID: 480-42477-5

Date Collected: 07/22/13 11:10

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/24/13 16:50	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/24/13 16:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/24/13 16:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/24/13 16:50	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/24/13 16:50	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/24/13 16:50	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/24/13 16:50	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/24/13 16:50	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/24/13 16:50	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/24/13 16:50	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 16:50	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/24/13 16:50	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/24/13 16:50	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/24/13 16:50	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/24/13 16:50	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/24/13 16:50	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/24/13 16:50	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/24/13 16:50	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 16:50	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/24/13 16:50	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 16:50	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/24/13 16:50	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/24/13 16:50	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 16:50	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 16:50	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/24/13 16:50	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/24/13 16:50	1
Acetone	0.65	J	2.5	0.54	ug/L			07/24/13 16:50	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 65 Surrey Drive

Lab Sample ID: 480-42477-5

Date Collected: 07/22/13 11:10

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/24/13 16:50	1
Bromobenzene	ND		0.50	0.13	ug/L			07/24/13 16:50	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/24/13 16:50	1
Bromoform	ND		0.50	0.13	ug/L			07/24/13 16:50	1
Bromomethane	ND		0.50	0.051	ug/L			07/24/13 16:50	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/24/13 16:50	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/24/13 16:50	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/24/13 16:50	1
Chloroethane	ND		0.50	0.070	ug/L			07/24/13 16:50	1
Chloroform	0.51		0.50	0.14	ug/L			07/24/13 16:50	1
Chloromethane	ND		0.50	0.063	ug/L			07/24/13 16:50	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/24/13 16:50	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/24/13 16:50	1
Dibromomethane	ND		0.50	0.17	ug/L			07/24/13 16:50	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/24/13 16:50	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/24/13 16:50	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/24/13 16:50	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/24/13 16:50	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/24/13 16:50	1
Methyl tert-butyl ether	0.41	J	0.50	0.12	ug/L			07/24/13 16:50	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/24/13 16:50	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/24/13 16:50	1
Naphthalene	ND		0.50	0.060	ug/L			07/24/13 16:50	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/24/13 16:50	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/24/13 16:50	1
o-Xylene	ND		0.50	0.044	ug/L			07/24/13 16:50	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/24/13 16:50	1
Styrene	ND		0.50	0.044	ug/L			07/24/13 16:50	1
t-Butanol	ND		10	2.5	ug/L			07/24/13 16:50	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/24/13 16:50	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/24/13 16:50	1
Toluene	ND		0.50	0.10	ug/L			07/24/13 16:50	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/24/13 16:50	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/24/13 16:50	1
Trichloroethene	ND		0.50	0.060	ug/L			07/24/13 16:50	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/24/13 16:50	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/24/13 16:50	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/24/13 16:50	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/24/13 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	106		80 - 120		07/24/13 16:50	1
4-Bromofluorobenzene (Surr)	100		80 - 120		07/24/13 16:50	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.047	J	0.20	0.040	ug/L		07/24/13 22:25	07/26/13 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	78		70 - 130	07/24/13 22:25	07/26/13 01:05	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 55 Redberry Lane

Lab Sample ID: 480-42477-7

Date Collected: 07/22/13 11:55

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/24/13 17:41	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/24/13 17:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/24/13 17:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/24/13 17:41	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/24/13 17:41	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/24/13 17:41	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/24/13 17:41	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/24/13 17:41	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/24/13 17:41	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/24/13 17:41	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 17:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/24/13 17:41	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/24/13 17:41	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/24/13 17:41	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/24/13 17:41	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/24/13 17:41	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/24/13 17:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/24/13 17:41	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 17:41	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/24/13 17:41	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 17:41	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/24/13 17:41	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/24/13 17:41	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 17:41	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 17:41	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/24/13 17:41	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/24/13 17:41	1
Acetone	0.68	J	2.5	0.54	ug/L			07/24/13 17:41	1
Benzene	ND		0.50	0.13	ug/L			07/24/13 17:41	1
Bromobenzene	ND		0.50	0.13	ug/L			07/24/13 17:41	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/24/13 17:41	1
Bromoform	ND		0.50	0.13	ug/L			07/24/13 17:41	1
Bromomethane	ND		0.50	0.051	ug/L			07/24/13 17:41	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/24/13 17:41	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/24/13 17:41	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/24/13 17:41	1
Chloroethane	ND		0.50	0.070	ug/L			07/24/13 17:41	1
Chloroform	ND		0.50	0.14	ug/L			07/24/13 17:41	1
Chloromethane	ND		0.50	0.063	ug/L			07/24/13 17:41	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/24/13 17:41	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/24/13 17:41	1
Dibromomethane	ND		0.50	0.17	ug/L			07/24/13 17:41	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/24/13 17:41	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/24/13 17:41	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/24/13 17:41	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/24/13 17:41	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/24/13 17:41	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/24/13 17:41	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/24/13 17:41	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 55 Redberry Lane

Lab Sample ID: 480-42477-7

Date Collected: 07/22/13 11:55

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/24/13 17:41	1
Naphthalene	ND		0.50	0.060	ug/L			07/24/13 17:41	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/24/13 17:41	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/24/13 17:41	1
o-Xylene	ND		0.50	0.044	ug/L			07/24/13 17:41	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/24/13 17:41	1
Styrene	ND		0.50	0.044	ug/L			07/24/13 17:41	1
t-Butanol	ND		10	2.5	ug/L			07/24/13 17:41	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/24/13 17:41	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/24/13 17:41	1
Toluene	ND		0.50	0.10	ug/L			07/24/13 17:41	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/24/13 17:41	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/24/13 17:41	1
Trichloroethene	ND		0.50	0.060	ug/L			07/24/13 17:41	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/24/13 17:41	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/24/13 17:41	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/24/13 17:41	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/24/13 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		07/24/13 17:41	1
4-Bromofluorobenzene (Surr)	100		80 - 120		07/24/13 17:41	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.047	J	0.20	0.040	ug/L		07/24/13 22:25	07/26/13 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	93		70 - 130	07/24/13 22:25	07/26/13 01:29	1

Client Sample ID: 30 Deerfield Lane

Lab Sample ID: 480-42477-9

Date Collected: 07/22/13 12:35

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/24/13 18:32	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/24/13 18:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/24/13 18:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/24/13 18:32	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/24/13 18:32	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/24/13 18:32	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/24/13 18:32	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/24/13 18:32	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/24/13 18:32	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/24/13 18:32	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 18:32	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/24/13 18:32	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/24/13 18:32	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/24/13 18:32	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 30 Deerfield Lane

Lab Sample ID: 480-42477-9

Date Collected: 07/22/13 12:35

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/24/13 18:32	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/24/13 18:32	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/24/13 18:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/24/13 18:32	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 18:32	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/24/13 18:32	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 18:32	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/24/13 18:32	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/24/13 18:32	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 18:32	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 18:32	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/24/13 18:32	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/24/13 18:32	1
Acetone	0.89	J	2.5	0.54	ug/L			07/24/13 18:32	1
Benzene	ND		0.50	0.13	ug/L			07/24/13 18:32	1
Bromobenzene	ND		0.50	0.13	ug/L			07/24/13 18:32	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/24/13 18:32	1
Bromoform	ND		0.50	0.13	ug/L			07/24/13 18:32	1
Bromomethane	ND		0.50	0.051	ug/L			07/24/13 18:32	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/24/13 18:32	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/24/13 18:32	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/24/13 18:32	1
Chloroethane	ND		0.50	0.070	ug/L			07/24/13 18:32	1
Chloroform	0.17	J	0.50	0.14	ug/L			07/24/13 18:32	1
Chloromethane	ND		0.50	0.063	ug/L			07/24/13 18:32	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/24/13 18:32	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/24/13 18:32	1
Dibromomethane	ND		0.50	0.17	ug/L			07/24/13 18:32	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/24/13 18:32	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/24/13 18:32	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/24/13 18:32	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/24/13 18:32	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/24/13 18:32	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/24/13 18:32	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/24/13 18:32	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/24/13 18:32	1
Naphthalene	ND		0.50	0.060	ug/L			07/24/13 18:32	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/24/13 18:32	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/24/13 18:32	1
o-Xylene	ND		0.50	0.044	ug/L			07/24/13 18:32	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/24/13 18:32	1
Styrene	ND		0.50	0.044	ug/L			07/24/13 18:32	1
t-Butanol	ND		10	2.5	ug/L			07/24/13 18:32	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/24/13 18:32	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/24/13 18:32	1
Toluene	ND		0.50	0.10	ug/L			07/24/13 18:32	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/24/13 18:32	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/24/13 18:32	1
Trichloroethene	ND		0.50	0.060	ug/L			07/24/13 18:32	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 30 Deerfield Lane

Lab Sample ID: 480-42477-9

Date Collected: 07/22/13 12:35

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/24/13 18:32	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/24/13 18:32	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/24/13 18:32	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/24/13 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	106		80 - 120		07/24/13 18:32	1
4-Bromofluorobenzene (Surr)	97		80 - 120		07/24/13 18:32	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/24/13 22:25	07/26/13 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	74		70 - 130	07/24/13 22:25	07/26/13 01:52	1

Client Sample ID: 115 Alston Ave

Lab Sample ID: 480-42477-11

Date Collected: 07/22/13 13:30

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/24/13 19:23	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/24/13 19:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/24/13 19:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/24/13 19:23	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/24/13 19:23	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/24/13 19:23	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/24/13 19:23	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/24/13 19:23	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/24/13 19:23	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/24/13 19:23	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 19:23	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/24/13 19:23	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/24/13 19:23	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/24/13 19:23	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/24/13 19:23	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/24/13 19:23	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/24/13 19:23	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/24/13 19:23	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 19:23	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/24/13 19:23	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 19:23	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/24/13 19:23	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/24/13 19:23	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 19:23	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 19:23	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/24/13 19:23	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/24/13 19:23	1
Acetone	ND		2.5	0.54	ug/L			07/24/13 19:23	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 115 Alston Ave

Lab Sample ID: 480-42477-11

Date Collected: 07/22/13 13:30

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/24/13 19:23	1
Bromobenzene	ND		0.50	0.13	ug/L			07/24/13 19:23	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/24/13 19:23	1
Bromoform	ND		0.50	0.13	ug/L			07/24/13 19:23	1
Bromomethane	ND		0.50	0.051	ug/L			07/24/13 19:23	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/24/13 19:23	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/24/13 19:23	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/24/13 19:23	1
Chloroethane	ND		0.50	0.070	ug/L			07/24/13 19:23	1
Chloroform	ND		0.50	0.14	ug/L			07/24/13 19:23	1
Chloromethane	ND		0.50	0.063	ug/L			07/24/13 19:23	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/24/13 19:23	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/24/13 19:23	1
Dibromomethane	ND		0.50	0.17	ug/L			07/24/13 19:23	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/24/13 19:23	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/24/13 19:23	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/24/13 19:23	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/24/13 19:23	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/24/13 19:23	1
Methyl tert-butyl ether	0.69		0.50	0.12	ug/L			07/24/13 19:23	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/24/13 19:23	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/24/13 19:23	1
Naphthalene	ND		0.50	0.060	ug/L			07/24/13 19:23	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/24/13 19:23	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/24/13 19:23	1
o-Xylene	ND		0.50	0.044	ug/L			07/24/13 19:23	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/24/13 19:23	1
Styrene	ND		0.50	0.044	ug/L			07/24/13 19:23	1
t-Butanol	ND		10	2.5	ug/L			07/24/13 19:23	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/24/13 19:23	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/24/13 19:23	1
Toluene	ND		0.50	0.10	ug/L			07/24/13 19:23	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/24/13 19:23	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/24/13 19:23	1
Trichloroethene	ND		0.50	0.060	ug/L			07/24/13 19:23	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/24/13 19:23	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/24/13 19:23	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/24/13 19:23	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/24/13 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		07/24/13 19:23	1
4-Bromofluorobenzene (Surr)	99		80 - 120		07/24/13 19:23	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.12	J	0.20	0.040	ug/L		07/24/13 22:25	07/26/13 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	86		70 - 130	07/24/13 22:25	07/26/13 02:38	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 70 Glacier Hills

Lab Sample ID: 480-42477-13

Date Collected: 07/22/13 14:10

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/24/13 20:13	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/24/13 20:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/24/13 20:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/24/13 20:13	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/24/13 20:13	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/24/13 20:13	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/24/13 20:13	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/24/13 20:13	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/24/13 20:13	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/24/13 20:13	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 20:13	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/24/13 20:13	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/24/13 20:13	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/24/13 20:13	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/24/13 20:13	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/24/13 20:13	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/24/13 20:13	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/24/13 20:13	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 20:13	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/24/13 20:13	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 20:13	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/24/13 20:13	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/24/13 20:13	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 20:13	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 20:13	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/24/13 20:13	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/24/13 20:13	1
Acetone	1.5 J		2.5	0.54	ug/L			07/24/13 20:13	1
Benzene	ND		0.50	0.13	ug/L			07/24/13 20:13	1
Bromobenzene	ND		0.50	0.13	ug/L			07/24/13 20:13	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/24/13 20:13	1
Bromoform	ND		0.50	0.13	ug/L			07/24/13 20:13	1
Bromomethane	ND		0.50	0.051	ug/L			07/24/13 20:13	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/24/13 20:13	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/24/13 20:13	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/24/13 20:13	1
Chloroethane	ND		0.50	0.070	ug/L			07/24/13 20:13	1
Chloroform	ND		0.50	0.14	ug/L			07/24/13 20:13	1
Chloromethane	ND		0.50	0.063	ug/L			07/24/13 20:13	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/24/13 20:13	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/24/13 20:13	1
Dibromomethane	ND		0.50	0.17	ug/L			07/24/13 20:13	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/24/13 20:13	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/24/13 20:13	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/24/13 20:13	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/24/13 20:13	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/24/13 20:13	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/24/13 20:13	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/24/13 20:13	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 70 Glacier Hills

Lab Sample ID: 480-42477-13

Date Collected: 07/22/13 14:10

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/24/13 20:13	1
Naphthalene	ND		0.50	0.060	ug/L			07/24/13 20:13	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/24/13 20:13	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/24/13 20:13	1
o-Xylene	ND		0.50	0.044	ug/L			07/24/13 20:13	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/24/13 20:13	1
Styrene	ND		0.50	0.044	ug/L			07/24/13 20:13	1
t-Butanol	ND		10	2.5	ug/L			07/24/13 20:13	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/24/13 20:13	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/24/13 20:13	1
Toluene	ND		0.50	0.10	ug/L			07/24/13 20:13	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/24/13 20:13	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/24/13 20:13	1
Trichloroethene	ND		0.50	0.060	ug/L			07/24/13 20:13	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/24/13 20:13	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/24/13 20:13	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/24/13 20:13	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/24/13 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		07/24/13 20:13	1
4-Bromofluorobenzene (Surr)	98		80 - 120		07/24/13 20:13	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/24/13 22:25	07/26/13 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	86		70 - 130	07/24/13 22:25	07/26/13 03:01	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-42477-15

Date Collected: 07/22/13 08:00

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/24/13 21:04	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/24/13 21:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/24/13 21:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/24/13 21:04	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/24/13 21:04	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/24/13 21:04	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/24/13 21:04	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/24/13 21:04	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/24/13 21:04	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/24/13 21:04	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 21:04	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/24/13 21:04	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/24/13 21:04	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/24/13 21:04	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-42477-15

Date Collected: 07/22/13 08:00

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/24/13 21:04	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/24/13 21:04	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/24/13 21:04	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/24/13 21:04	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 21:04	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/24/13 21:04	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 21:04	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/24/13 21:04	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/24/13 21:04	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 21:04	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 21:04	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/24/13 21:04	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/24/13 21:04	1
Acetone	2.1	J	2.5	0.54	ug/L			07/24/13 21:04	1
Benzene	ND		0.50	0.13	ug/L			07/24/13 21:04	1
Bromobenzene	ND		0.50	0.13	ug/L			07/24/13 21:04	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/24/13 21:04	1
Bromoform	ND		0.50	0.13	ug/L			07/24/13 21:04	1
Bromomethane	ND		0.50	0.051	ug/L			07/24/13 21:04	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/24/13 21:04	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/24/13 21:04	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/24/13 21:04	1
Chloroethane	ND		0.50	0.070	ug/L			07/24/13 21:04	1
Chloroform	ND		0.50	0.14	ug/L			07/24/13 21:04	1
Chloromethane	ND		0.50	0.063	ug/L			07/24/13 21:04	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/24/13 21:04	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/24/13 21:04	1
Dibromomethane	ND		0.50	0.17	ug/L			07/24/13 21:04	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/24/13 21:04	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/24/13 21:04	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/24/13 21:04	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/24/13 21:04	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/24/13 21:04	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/24/13 21:04	1
Methylene Chloride	0.25	J	0.50	0.25	ug/L			07/24/13 21:04	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/24/13 21:04	1
Naphthalene	ND		0.50	0.060	ug/L			07/24/13 21:04	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/24/13 21:04	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/24/13 21:04	1
o-Xylene	ND		0.50	0.044	ug/L			07/24/13 21:04	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/24/13 21:04	1
Styrene	ND		0.50	0.044	ug/L			07/24/13 21:04	1
t-Butanol	ND		10	2.5	ug/L			07/24/13 21:04	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/24/13 21:04	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/24/13 21:04	1
Toluene	ND		0.50	0.10	ug/L			07/24/13 21:04	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/24/13 21:04	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/24/13 21:04	1
Trichloroethene	ND		0.50	0.060	ug/L			07/24/13 21:04	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-42477-15

Date Collected: 07/22/13 08:00

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/24/13 21:04	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/24/13 21:04	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/24/13 21:04	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/24/13 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		07/24/13 21:04	1
4-Bromofluorobenzene (Surr)	99		80 - 120		07/24/13 21:04	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/24/13 22:25	07/26/13 03:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	86		70 - 130	07/24/13 22:25	07/26/13 03:25	1

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)
480-42477-1	255 Schoolhouse Road	104	98
480-42477-3	115 Fairview Ave	105	98
480-42477-5	65 Surrey Drive	106	100
480-42477-7	55 Redberry Lane	104	100
480-42477-9	30 Deerfield Lane	106	97
480-42477-11	115 Alston Ave	103	99
480-42477-13	70 Glacier Hills	107	98
480-42477-15	Trip Blank	103	99
LCS 480-130352/9	Lab Control Sample	100	99
MB 480-130352/10	Method Blank	102	96
Surrogate Legend			
12DCB = 1,2-Dichlorobenzene-d4			
BFB = 4-Bromofluorobenzene (Surr)			

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	14DD8 (70-130)	
480-42477-1	255 Schoolhouse Road	83	
480-42477-3	115 Fairview Ave	99	
480-42477-5	65 Surrey Drive	78	
480-42477-7	55 Redberry Lane	93	
480-42477-9	30 Deerfield Lane	74	
480-42477-11	115 Alston Ave	86	
480-42477-13	70 Glacier Hills	86	
480-42477-15	Trip Blank	86	
LCS 200-58911/2-A	Lab Control Sample	81	
MB 200-58911/1-A	Method Blank	87	
Surrogate Legend			
14DD8 = 1,4-Dioxane-d8 (Surr)			

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-130352/10

Matrix: Water

Analysis Batch: 130352

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/24/13 14:11	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/24/13 14:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/24/13 14:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/24/13 14:11	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/24/13 14:11	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/24/13 14:11	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/24/13 14:11	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/24/13 14:11	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/24/13 14:11	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/24/13 14:11	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 14:11	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/24/13 14:11	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/24/13 14:11	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/24/13 14:11	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/24/13 14:11	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/24/13 14:11	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/24/13 14:11	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/24/13 14:11	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 14:11	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/24/13 14:11	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 14:11	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/24/13 14:11	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/24/13 14:11	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 14:11	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 14:11	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/24/13 14:11	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/24/13 14:11	1
Acetone	ND		2.5	0.54	ug/L			07/24/13 14:11	1
Benzene	ND		0.50	0.13	ug/L			07/24/13 14:11	1
Bromobenzene	ND		0.50	0.13	ug/L			07/24/13 14:11	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/24/13 14:11	1
Bromoform	ND		0.50	0.13	ug/L			07/24/13 14:11	1
Bromomethane	ND		0.50	0.051	ug/L			07/24/13 14:11	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/24/13 14:11	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/24/13 14:11	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/24/13 14:11	1
Chloroethane	ND		0.50	0.070	ug/L			07/24/13 14:11	1
Chloroform	ND		0.50	0.14	ug/L			07/24/13 14:11	1
Chloromethane	ND		0.50	0.063	ug/L			07/24/13 14:11	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/24/13 14:11	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/24/13 14:11	1
Dibromomethane	ND		0.50	0.17	ug/L			07/24/13 14:11	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/24/13 14:11	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/24/13 14:11	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/24/13 14:11	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/24/13 14:11	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/24/13 14:11	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/24/13 14:11	1

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-130352/10

Matrix: Water

Analysis Batch: 130352

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			07/24/13 14:11	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/24/13 14:11	1
Naphthalene	ND		0.50	0.060	ug/L			07/24/13 14:11	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/24/13 14:11	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/24/13 14:11	1
o-Xylene	ND		0.50	0.044	ug/L			07/24/13 14:11	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/24/13 14:11	1
Styrene	ND		0.50	0.044	ug/L			07/24/13 14:11	1
t-Butanol	ND		10	2.5	ug/L			07/24/13 14:11	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/24/13 14:11	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/24/13 14:11	1
Toluene	ND		0.50	0.10	ug/L			07/24/13 14:11	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/24/13 14:11	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/24/13 14:11	1
Trichloroethene	ND		0.50	0.060	ug/L			07/24/13 14:11	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/24/13 14:11	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/24/13 14:11	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/24/13 14:11	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/24/13 14:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		07/24/13 14:11	1
4-Bromofluorobenzene (Surr)	96		80 - 120		07/24/13 14:11	1

Lab Sample ID: LCS 480-130352/9

Matrix: Water

Analysis Batch: 130352

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.05		ug/L		101	70 - 130
1,1,1-Trichloroethane	4.00	3.96		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.85		ug/L		96	70 - 130
1,1,2-Trichloroethane	4.00	3.98		ug/L		100	70 - 130
1,1-Dichloroethane	4.00	3.95		ug/L		99	70 - 130
1,1-Dichloroethene	4.00	3.66		ug/L		91	70 - 130
1,1-Dichloropropene	4.00	4.30		ug/L		107	70 - 130
1,2,3-Trichlorobenzene	4.00	4.20		ug/L		105	70 - 130
1,2,3-Trichloropropane	4.00	3.77		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	4.00	4.21		ug/L		105	70 - 130
1,2,4-Trimethylbenzene	4.00	4.18		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	4.11		ug/L		103	70 - 130
1,2-Dibromoethane	4.00	3.92		ug/L		98	70 - 130
1,2-Dichlorobenzene	4.00	4.02		ug/L		101	70 - 130
1,2-Dichloroethane	4.00	3.84		ug/L		96	70 - 130
1,2-Dichloropropane	4.00	3.89		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	4.00	4.12		ug/L		103	70 - 130
1,3-Dichlorobenzene	4.00	3.98		ug/L		99	70 - 130
1,3-Dichloropropane	4.00	3.98		ug/L		100	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-130352/9

Matrix: Water

Analysis Batch: 130352

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.98		ug/L		99	70 - 130
2,2-Dichloropropane	4.00	3.40		ug/L		85	70 - 130
2-Butanone (MEK)	20.0	20.3		ug/L		101	70 - 130
2-Chlorotoluene	4.00	4.02		ug/L		101	70 - 130
4-Chlorotoluene	4.00	3.96		ug/L		99	70 - 130
4-Isopropyltoluene	4.00	4.22		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	21.7		ug/L		109	70 - 130
Acetone	20.0	19.3		ug/L		96	70 - 130
Benzene	4.00	4.06		ug/L		102	70 - 130
Bromobenzene	4.00	4.04		ug/L		101	70 - 130
Bromochloromethane	4.00	3.88		ug/L		97	70 - 130
Bromoform	4.00	3.94		ug/L		98	70 - 130
Bromomethane	4.00	3.64		ug/L		91	70 - 130
Carbon tetrachloride	4.00	4.06		ug/L		101	70 - 130
Chlorobenzene	4.00	4.01		ug/L		100	70 - 130
Chlorodibromomethane	4.00	3.90		ug/L		97	70 - 130
Chloroethane	4.00	4.06		ug/L		101	70 - 130
Chloroform	4.00	3.80		ug/L		95	70 - 130
Chloromethane	4.00	4.01		ug/L		100	70 - 130
cis-1,2-Dichloroethene	4.00	3.95		ug/L		99	70 - 130
cis-1,3-Dichloropropene	4.00	3.92		ug/L		98	70 - 130
Dibromomethane	4.00	3.94		ug/L		99	70 - 130
Dichlorobromomethane	4.00	3.86		ug/L		96	70 - 130
Dichlorodifluoromethane	4.00	4.45		ug/L		111	70 - 130
Ethylbenzene	4.00	4.12		ug/L		103	70 - 130
Hexachlorobutadiene	4.00	4.17		ug/L		104	70 - 130
Isopropylbenzene	4.00	4.24		ug/L		106	70 - 130
Methyl tert-butyl ether	4.00	4.01		ug/L		100	70 - 130
Methylene Chloride	4.00	3.81		ug/L		95	70 - 130
Naphthalene	4.00	4.30		ug/L		108	70 - 130
n-Butylbenzene	4.00	4.33		ug/L		108	70 - 130
N-Propylbenzene	4.00	4.11		ug/L		103	70 - 130
sec-Butylbenzene	4.00	4.26		ug/L		106	70 - 130
Styrene	4.00	4.31		ug/L		108	70 - 130
tert-Butylbenzene	4.00	4.30		ug/L		107	70 - 130
Tetrachloroethene	4.00	4.02		ug/L		101	70 - 130
Toluene	4.00	4.07		ug/L		102	70 - 130
trans-1,2-Dichloroethene	4.00	3.88		ug/L		97	70 - 130
trans-1,3-Dichloropropene	4.00	3.86		ug/L		96	70 - 130
Trichloroethene	4.00	3.99		ug/L		100	70 - 130
Trichlorofluoromethane	4.00	4.37		ug/L		109	70 - 130
Vinyl chloride	4.00	4.21		ug/L		105	70 - 130
Xylenes, Total	12.0	12.4		ug/L		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	100		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-58911/1-A

Matrix: Water

Analysis Batch: 58887

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/24/13 22:25	07/25/13 20:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	87		70 - 130				07/24/13 22:25	07/25/13 20:07	1

Lab Sample ID: LCS 200-58911/2-A

Matrix: Water

Analysis Batch: 58887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	8.00	6.88		ug/L		86	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	81		70 - 130				

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

GC/MS VOA

Analysis Batch: 130352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42477-1	255 Schoolhouse Road	Total/NA	Water	524.2	
480-42477-3	115 Fairview Ave	Total/NA	Water	524.2	
480-42477-5	65 Surrey Drive	Total/NA	Water	524.2	
480-42477-7	55 Redberry Lane	Total/NA	Water	524.2	
480-42477-9	30 Deerfield Lane	Total/NA	Water	524.2	
480-42477-11	115 Alston Ave	Total/NA	Water	524.2	
480-42477-13	70 Glacier Hills	Total/NA	Water	524.2	
480-42477-15	Trip Blank	Total/NA	Water	524.2	
LCS 480-130352/9	Lab Control Sample	Total/NA	Water	524.2	
MB 480-130352/10	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Analysis Batch: 58887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42477-1	255 Schoolhouse Road	Total/NA	Water	522 MOD	58911
480-42477-3	115 Fairview Ave	Total/NA	Water	522 MOD	58911
480-42477-5	65 Surrey Drive	Total/NA	Water	522 MOD	58911
480-42477-7	55 Redberry Lane	Total/NA	Water	522 MOD	58911
480-42477-9	30 Deerfield Lane	Total/NA	Water	522 MOD	58911
480-42477-11	115 Alston Ave	Total/NA	Water	522 MOD	58911
480-42477-13	70 Glacier Hills	Total/NA	Water	522 MOD	58911
480-42477-15	Trip Blank	Total/NA	Water	522 MOD	58911
LCS 200-58911/2-A	Lab Control Sample	Total/NA	Water	522 MOD	58911
MB 200-58911/1-A	Method Blank	Total/NA	Water	522 MOD	58911

Prep Batch: 58911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42477-1	255 Schoolhouse Road	Total/NA	Water	3535A	
480-42477-3	115 Fairview Ave	Total/NA	Water	3535A	
480-42477-5	65 Surrey Drive	Total/NA	Water	3535A	
480-42477-7	55 Redberry Lane	Total/NA	Water	3535A	
480-42477-9	30 Deerfield Lane	Total/NA	Water	3535A	
480-42477-11	115 Alston Ave	Total/NA	Water	3535A	
480-42477-13	70 Glacier Hills	Total/NA	Water	3535A	
480-42477-15	Trip Blank	Total/NA	Water	3535A	
LCS 200-58911/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-58911/1-A	Method Blank	Total/NA	Water	3535A	

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 255 Schoolhouse Road

Lab Sample ID: 480-42477-1

Date Collected: 07/22/13 09:40

Matrix: Water

Date Received: 07/24/13 02:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	130352	07/24/13 15:03	TRB	TAL BUF
Total/NA	Prep	3535A			58911	07/24/13 22:25	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	58887	07/26/13 00:19	JE1	TAL BUR

Client Sample ID: 115 Fairview Ave

Lab Sample ID: 480-42477-3

Date Collected: 07/22/13 10:25

Matrix: Water

Date Received: 07/24/13 02:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	130352	07/24/13 15:54	TRB	TAL BUF
Total/NA	Prep	3535A			58911	07/24/13 22:25	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	58887	07/26/13 00:42	JE1	TAL BUR

Client Sample ID: 65 Surrey Drive

Lab Sample ID: 480-42477-5

Date Collected: 07/22/13 11:10

Matrix: Water

Date Received: 07/24/13 02:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	130352	07/24/13 16:50	TRB	TAL BUF
Total/NA	Prep	3535A			58911	07/24/13 22:25	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	58887	07/26/13 01:05	JE1	TAL BUR

Client Sample ID: 55 Redberry Lane

Lab Sample ID: 480-42477-7

Date Collected: 07/22/13 11:55

Matrix: Water

Date Received: 07/24/13 02:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	130352	07/24/13 17:41	TRB	TAL BUF
Total/NA	Prep	3535A			58911	07/24/13 22:25	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	58887	07/26/13 01:29	JE1	TAL BUR

Client Sample ID: 30 Deerfield Lane

Lab Sample ID: 480-42477-9

Date Collected: 07/22/13 12:35

Matrix: Water

Date Received: 07/24/13 02:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	130352	07/24/13 18:32	TRB	TAL BUF
Total/NA	Prep	3535A			58911	07/24/13 22:25	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	58887	07/26/13 01:52	JE1	TAL BUR

TestAmerica Buffalo

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 115 Alston Ave

Date Collected: 07/22/13 13:30

Date Received: 07/24/13 02:15

Lab Sample ID: 480-42477-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	130352	07/24/13 19:23	TRB	TAL BUF
Total/NA	Prep	3535A			58911	07/24/13 22:25	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	58887	07/26/13 02:38	JE1	TAL BUR

Client Sample ID: 70 Glacier Hills

Date Collected: 07/22/13 14:10

Date Received: 07/24/13 02:15

Lab Sample ID: 480-42477-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	130352	07/24/13 20:13	TRB	TAL BUF
Total/NA	Prep	3535A			58911	07/24/13 22:25	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	58887	07/26/13 03:01	JE1	TAL BUR

Client Sample ID: Trip Blank

Date Collected: 07/22/13 08:00

Date Received: 07/24/13 02:15

Lab Sample ID: 480-42477-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	130352	07/24/13 21:04	TRB	TAL BUF
Total/NA	Prep	3535A			58911	07/24/13 22:25	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	58887	07/26/13 03:25	JE1	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13 *
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-13 *
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13 *
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13 *

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-42477-1	255 Schoolhouse Road	Water	07/22/13 09:40	07/24/13 02:15
480-42477-3	115 Fairview Ave	Water	07/22/13 10:25	07/24/13 02:15
480-42477-5	65 Surrey Drive	Water	07/22/13 11:10	07/24/13 02:15
480-42477-7	55 Redberry Lane	Water	07/22/13 11:55	07/24/13 02:15
480-42477-9	30 Deerfield Lane	Water	07/22/13 12:35	07/24/13 02:15
480-42477-11	115 Alston Ave	Water	07/22/13 13:30	07/24/13 02:15
480-42477-13	70 Glacier Hills	Water	07/22/13 14:10	07/24/13 02:15
480-42477-15	Trip Blank	Water	07/22/13 08:00	07/24/13 02:15

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: David Bennett		Site Contact:		Date:		COC No:													
Tel/Fax: 508-896-1706		Tel/Fax: 508-896-1706		Lab Contact:		Carrier:		1 of 2 COCs													
Analysis Turnaround Time		Calendar (C) or Work Days (W)		C		For Lab Use Only:															
TAT if different from Below		2 weeks				Walk-in Client:															
☒ 2 weeks		1 week				Lab Sampling:															
☐ 1 week		2 days				Job / SDG No.: BEA11-10104															
☐ 2 days		1 day				Sampler: JTW															
☐ 1 day																					
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)			Composite = C / Grab = G			VOCs via 524.2			1,4-Dioxane via 522.1 Mod			Sample Specific Notes:		
255 Schoolhouse Road		7/22/2013	9:40 am	G	W	5	N	G	3	2											
255 Schoolhouse Road Duplicate		7/22/2013	9:40 am	G	W	4	N	G	3	1											
115 Fairview Ave.		7/22/2013	10:25 am	G	W	5	N	G	3	2											
115 Fairview Ave. Duplicate		7/22/2013	10:25 am	G	W	4	N	G	3	1											
65 Surrey Drive		7/22/2013	11:10 am	G	W	5	N	G	3	2											
65 Surrey Drive Duplicate		7/22/2013	11:10 am	G	W	4	N	G	3	1											
55 Redberry Lane		7/22/2013	11:55 am	G	W	5	N	G	3	2											
55 Redberry Lane Duplicate		7/22/2013	11:55 am	G	W	4	N	G	3	1											
30 Deerfield Lane		7/22/2013	12:35 pm	G	W	5	N	G	3	2											
30 Deerfield Lane Duplicate		7/22/2013	12:35 pm	G	W	4	N	G	3	1											
115 Alston Ave.		7/22/2013	1:30 pm	G	W	5	N	G	3	2											
115 Alston Ave. Duplicate		7/22/2013	1:30 pm	G	W	4	N	G	3	1											
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other		7/22/2013	1:30 pm	G	W	4	N	G	3	1											
Possible Hazard Identification:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																			
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.																					
Non-Hazard		Return to Client																			
Flammable		Disposal by Lab																			
Skin Irritant		Archive for																			
Poison B		Months																			
Unknown																					

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

3.1#1

Relinquished by: 	Company: BEA	Date/Time: 7/12/13 4:20	Received by: 	Company: BEA	Date/Time:
Relinquished by: 	Company: BEA	Date/Time: 7/23/13 11:05	Received by: 	Company: TPA	Date/Time: 7-23-13 11:05
Relinquished by: 	Company: TPA	Date/Time: 7/23/13 14:00	Received in Laboratory by: 	Company: TPA	Date/Time: 7-24-13 12:15

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: MA MCP

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: David Bennett		Site Contact:		Date:	
Bennett Environmental Associates, Inc.		Tel/Fax: 508-896-1706		Lab Contact:		Carrier:	
Address: 1573 Main St. / P.O. Box 1743		Analysis Turnaround Time		Calendar (C) or Work Days (W) _____ C		For Lab Use Only:	
City/State/Zip: Brewster, MA 02631		TAT if different from Below		TAT if different from Below		Walk-in Client:	
Phone: 508-896-1706		☒ 2 weeks		☒ 2 weeks		Lab Sampling:	
FAX: 508-896-5109		☐ 1 week		☐ 1 week		Job / SDG No.: BEA11-10104	
Project Name: Eastham Landfill		☐ 2 days		☐ 2 days		Sampler: JTW	
Site: Town of Eastham		☐ 1 day		☐ 1 day		Sample Specific Notes:	
P O #: BEA09-10104							
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G
70 Glacier Hills	7/22/2013	2:10 pm	G	W	5	N	1,4-Dioxane via 522.1 Mod
70 Glacier Hills Duplicate	7/22/2013	2:10 pm	G	W	4	N	VOCs via 524.2
Trip Blank	7/22/2013	8:00 am	G	W	4	N	
							1,2,1,2
							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
							☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months
							3.1#1
							Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com
Relinquished by:	Company: BEA	Date/Time: 7/22/13 4:00	Received by:	Company: H&H	Date/Time:	Relinquished by:	Company: BEA
Relinquished by:	Company: H&H	Date/Time: 7/23/13 1:05	Received by:	Company: JTW	Date/Time: 7/23/13 1:05	Relinquished by:	Company: JTW
Relinquished by:	Company: JTW	Date/Time: 7/23/13 1:05	Received by:	Company: JTW	Date/Time: 7/24/13 02:15	Relinquished by:	Company: JTW

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-42477-1

Login Number: 42477

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	False	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-42477-1

Login Number: 42477

List Number: 1

Creator: Gagne, Eric M

List Source: TestAmerica Burlington

List Creation: 07/24/13 03:00 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	No SEALS
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.4°C IR GUN ID 181. CF -0.2
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-42551-1

Client Project/Site: Eastham Landfill IRA

For:

Bennett Environmental Associates, Inc.

1573 Main St.

Brewster, Massachusetts 02631

Attn: David Bennett



Authorized for release by:

7/31/2013 4:20:21 PM

Steve Hartmann, Lab Director

steve.hartmann@testamericainc.com

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Job ID: 480-42551-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-42551-1

Receipt

The samples were received on 7/25/2013 3:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA (524.2)

Method(s) 524.2: The laboratory control sample (LCS) for batch 131116 recovered outside control limits for the following several analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 524.2: The laboratory control sample (LCS) for batch 131257 recovered outside control limits for the following analytes: Dichlorodifluoromethane and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA (522MOD)

No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: Atlantic Oaks-South Well

Lab Sample ID: 480-42551-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.95	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	0.96		0.50	0.14	ug/L	1			524.2	Total/NA
Chloromethane	0.074	J	0.50	0.063	ug/L	1			524.2	Total/NA

Client Sample ID: 180 Schoolhouse Road

Lab Sample ID: 480-42551-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,4-Dioxane	0.093	J	0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample ID: 20 Redberry Lane

Lab Sample ID: 480-42551-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.5	J *	2.5	0.54	ug/L	1			524.2	Total/NA
Methyl tert-butyl ether	0.14	J	0.50	0.12	ug/L	1			524.2	Total/NA
1,4-Dioxane	0.046	J	0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample ID: 40 Starlight Lane

Lab Sample ID: 480-42551-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.5	J *	2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	0.27	J	0.50	0.14	ug/L	1			524.2	Total/NA
Dichlorodifluoromethane	0.16	J	0.50	0.070	ug/L	1			524.2	Total/NA
1,4-Dioxane	0.83		0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample ID: 275 Meetinghouse Road

Lab Sample ID: 480-42551-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.5	J *	2.5	0.54	ug/L	1			524.2	Total/NA
Methyl tert-butyl ether	0.26	J	0.50	0.12	ug/L	1			524.2	Total/NA

Client Sample ID: 130 Glacier Hills Road

Lab Sample ID: 480-42551-11

No Detections.

Client Sample ID: 65 Knowles Street

Lab Sample ID: 480-42551-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	2.2	J *	2.5	0.54	ug/L	1			524.2	Total/NA
1,4-Dioxane	0.11	J	0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-42551-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.8	J *	2.5	0.54	ug/L	1			524.2	Total/NA
Methylene Chloride	0.27	J	0.50	0.25	ug/L	1			524.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: Atlantic Oaks-South Well

Lab Sample ID: 480-42551-1

Date Collected: 07/23/13 09:50

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 01:23	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 01:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 01:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 01:23	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 01:23	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 01:23	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 01:23	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 01:23	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 01:23	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 01:23	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 01:23	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 01:23	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 01:23	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 01:23	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 01:23	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 01:23	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 01:23	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 01:23	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 01:23	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 01:23	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 01:23	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 01:23	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 01:23	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 01:23	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 01:23	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 01:23	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 01:23	1
Acetone	0.95	J	2.5	0.54	ug/L			07/30/13 01:23	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 01:23	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 01:23	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 01:23	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 01:23	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 01:23	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 01:23	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 01:23	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 01:23	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 01:23	1
Chloroform	0.96		0.50	0.14	ug/L			07/30/13 01:23	1
Chloromethane	0.074	J	0.50	0.063	ug/L			07/30/13 01:23	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 01:23	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 01:23	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 01:23	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 01:23	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			07/30/13 01:23	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 01:23	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 01:23	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 01:23	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 01:23	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 01:23	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: Atlantic Oaks-South Well

Lab Sample ID: 480-42551-1

Date Collected: 07/23/13 09:50

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 01:23	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 01:23	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 01:23	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 01:23	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 01:23	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 01:23	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 01:23	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 01:23	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 01:23	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 01:23	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 01:23	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 01:23	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 01:23	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 01:23	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 01:23	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 01:23	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 01:23	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 01:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	108		80 - 120		07/30/13 01:23	1
4-Bromofluorobenzene (Surr)	99		80 - 120		07/30/13 01:23	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/26/13 11:16	07/26/13 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	97		70 - 130	07/26/13 11:16	07/26/13 13:56	1

Client Sample ID: 180 Schoolhouse Road

Lab Sample ID: 480-42551-3

Date Collected: 07/23/13 10:40

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 14:22	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 14:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 14:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 14:22	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 14:22	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 14:22	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 14:22	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 14:22	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 14:22	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 14:22	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			07/29/13 14:22	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 14:22	1
1,2-Dibromo-3-Chloropropane	ND	*	0.50	0.21	ug/L			07/29/13 14:22	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 14:22	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 180 Schoolhouse Road

Lab Sample ID: 480-42551-3

Date Collected: 07/23/13 10:40

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 14:22	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 14:22	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 14:22	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 14:22	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 14:22	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 14:22	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 14:22	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 14:22	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 14:22	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 14:22	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 14:22	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 14:22	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 14:22	1
Acetone	ND	*	2.5	0.54	ug/L			07/29/13 14:22	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 14:22	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 14:22	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 14:22	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 14:22	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 14:22	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 14:22	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 14:22	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 14:22	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 14:22	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 14:22	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 14:22	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 14:22	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 14:22	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 14:22	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 14:22	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 14:22	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 14:22	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 14:22	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 14:22	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 14:22	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 14:22	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 14:22	1
Naphthalene	ND	*	0.50	0.060	ug/L			07/29/13 14:22	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 14:22	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 14:22	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 14:22	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 14:22	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 14:22	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 14:22	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 14:22	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 14:22	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 14:22	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 14:22	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 14:22	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 14:22	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 180 Schoolhouse Road

Lab Sample ID: 480-42551-3

Date Collected: 07/23/13 10:40

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 14:22	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 14:22	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 14:22	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		07/29/13 14:22	1
4-Bromofluorobenzene (Surr)	102		80 - 120		07/29/13 14:22	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.093	J	0.20	0.040	ug/L		07/26/13 11:16	07/26/13 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	90		70 - 130	07/26/13 11:16	07/26/13 14:21	1

Client Sample ID: 20 Redberry Lane

Lab Sample ID: 480-42551-5

Date Collected: 07/23/13 11:25

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 15:12	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 15:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 15:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 15:12	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 15:12	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 15:12	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 15:12	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 15:12	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 15:12	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 15:12	1
1,2,4-Trichlorobenzene	ND *		0.50	0.13	ug/L			07/29/13 15:12	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 15:12	1
1,2-Dibromo-3-Chloropropane	ND *		0.50	0.21	ug/L			07/29/13 15:12	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 15:12	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 15:12	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 15:12	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 15:12	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 15:12	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 15:12	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 15:12	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 15:12	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 15:12	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 15:12	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 15:12	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 15:12	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 15:12	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 15:12	1
Acetone	1.5	J *	2.5	0.54	ug/L			07/29/13 15:12	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 20 Redberry Lane

Lab Sample ID: 480-42551-5

Date Collected: 07/23/13 11:25

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/29/13 15:12	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 15:12	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 15:12	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 15:12	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 15:12	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 15:12	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 15:12	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 15:12	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 15:12	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 15:12	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 15:12	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 15:12	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 15:12	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 15:12	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 15:12	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 15:12	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 15:12	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 15:12	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 15:12	1
Methyl tert-butyl ether	0.14	J	0.50	0.12	ug/L			07/29/13 15:12	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 15:12	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 15:12	1
Naphthalene	ND	*	0.50	0.060	ug/L			07/29/13 15:12	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 15:12	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 15:12	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 15:12	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 15:12	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 15:12	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 15:12	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 15:12	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 15:12	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 15:12	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 15:12	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 15:12	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 15:12	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 15:12	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 15:12	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 15:12	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	109		80 - 120		07/29/13 15:12	1
4-Bromofluorobenzene (Surr)	103		80 - 120		07/29/13 15:12	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.046	J	0.20	0.040	ug/L		07/26/13 11:16	07/26/13 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	86		70 - 130	07/26/13 11:16	07/26/13 14:54	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 40 Starlight Lane

Lab Sample ID: 480-42551-7

Date Collected: 07/23/13 12:30

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 16:01	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 16:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 16:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 16:01	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 16:01	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 16:01	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 16:01	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 16:01	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 16:01	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 16:01	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			07/29/13 16:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 16:01	1
1,2-Dibromo-3-Chloropropane	ND	*	0.50	0.21	ug/L			07/29/13 16:01	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 16:01	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 16:01	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 16:01	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 16:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 16:01	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 16:01	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 16:01	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 16:01	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 16:01	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 16:01	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 16:01	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 16:01	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 16:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 16:01	1
Acetone	1.5	J *	2.5	0.54	ug/L			07/29/13 16:01	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 16:01	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 16:01	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 16:01	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 16:01	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 16:01	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 16:01	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 16:01	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 16:01	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 16:01	1
Chloroform	0.27	J	0.50	0.14	ug/L			07/29/13 16:01	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 16:01	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 16:01	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 16:01	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 16:01	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 16:01	1
Dichlorodifluoromethane	0.16	J	0.50	0.070	ug/L			07/29/13 16:01	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 16:01	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 16:01	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 16:01	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 16:01	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 16:01	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 40 Starlight Lane

Lab Sample ID: 480-42551-7

Date Collected: 07/23/13 12:30

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 16:01	1
Naphthalene	ND	*	0.50	0.060	ug/L			07/29/13 16:01	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 16:01	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 16:01	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 16:01	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 16:01	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 16:01	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 16:01	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 16:01	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 16:01	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 16:01	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 16:01	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 16:01	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 16:01	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 16:01	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 16:01	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 16:01	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		07/29/13 16:01	1
4-Bromofluorobenzene (Surr)	104		80 - 120		07/29/13 16:01	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.83		0.20	0.040	ug/L		07/26/13 11:16	07/30/13 22:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	91		70 - 130	07/26/13 11:16	07/30/13 22:09	1

Client Sample ID: 275 Meetinghouse Road

Lab Sample ID: 480-42551-9

Date Collected: 07/23/13 13:20

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 16:51	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 16:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 16:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 16:51	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 16:51	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 16:51	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 16:51	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 16:51	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 16:51	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 16:51	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			07/29/13 16:51	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 16:51	1
1,2-Dibromo-3-Chloropropane	ND	*	0.50	0.21	ug/L			07/29/13 16:51	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 16:51	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 275 Meetinghouse Road

Lab Sample ID: 480-42551-9

Date Collected: 07/23/13 13:20

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 16:51	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 16:51	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 16:51	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 16:51	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 16:51	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 16:51	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 16:51	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 16:51	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 16:51	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 16:51	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 16:51	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 16:51	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 16:51	1
Acetone	1.5	J *	2.5	0.54	ug/L			07/29/13 16:51	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 16:51	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 16:51	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 16:51	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 16:51	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 16:51	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 16:51	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 16:51	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 16:51	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 16:51	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 16:51	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 16:51	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 16:51	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 16:51	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 16:51	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 16:51	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 16:51	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 16:51	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 16:51	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 16:51	1
Methyl tert-butyl ether	0.26	J	0.50	0.12	ug/L			07/29/13 16:51	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 16:51	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 16:51	1
Naphthalene	ND	*	0.50	0.060	ug/L			07/29/13 16:51	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 16:51	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 16:51	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 16:51	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 16:51	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 16:51	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 16:51	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 16:51	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 16:51	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 16:51	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 16:51	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 16:51	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 16:51	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 275 Meetinghouse Road

Lab Sample ID: 480-42551-9

Date Collected: 07/23/13 13:20

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 16:51	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 16:51	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 16:51	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 16:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120					07/29/13 16:51	1
4-Bromofluorobenzene (Surr)	93		80 - 120					07/29/13 16:51	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/26/13 11:16	07/30/13 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	81		70 - 130				07/26/13 11:16	07/30/13 22:33	1

Client Sample ID: 130 Glacier Hills Road

Lab Sample ID: 480-42551-11

Date Collected: 07/23/13 14:15

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 17:41	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 17:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 17:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 17:41	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 17:41	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 17:41	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 17:41	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 17:41	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 17:41	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 17:41	1
1,2,4-Trichlorobenzene	ND *		0.50	0.13	ug/L			07/29/13 17:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 17:41	1
1,2-Dibromo-3-Chloropropane	ND *		0.50	0.21	ug/L			07/29/13 17:41	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 17:41	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 17:41	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 17:41	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 17:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 17:41	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 17:41	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 17:41	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 17:41	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 17:41	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 17:41	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 17:41	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 17:41	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 17:41	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 17:41	1
Acetone	ND *		2.5	0.54	ug/L			07/29/13 17:41	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 130 Glacier Hills Road

Lab Sample ID: 480-42551-11

Date Collected: 07/23/13 14:15

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/29/13 17:41	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 17:41	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 17:41	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 17:41	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 17:41	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 17:41	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 17:41	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 17:41	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 17:41	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 17:41	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 17:41	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 17:41	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 17:41	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 17:41	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 17:41	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 17:41	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 17:41	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 17:41	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 17:41	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 17:41	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 17:41	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 17:41	1
Naphthalene	ND *		0.50	0.060	ug/L			07/29/13 17:41	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 17:41	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 17:41	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 17:41	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 17:41	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 17:41	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 17:41	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 17:41	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 17:41	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 17:41	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 17:41	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 17:41	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 17:41	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 17:41	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 17:41	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 17:41	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		07/29/13 17:41	1
4-Bromofluorobenzene (Surr)	94		80 - 120		07/29/13 17:41	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/26/13 11:16	07/31/13 10:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	72		70 - 130	07/26/13 11:16	07/31/13 10:07	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 65 Knowles Street

Lab Sample ID: 480-42551-13

Date Collected: 07/23/13 15:10

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 18:30	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 18:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 18:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 18:30	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 18:30	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 18:30	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 18:30	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 18:30	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 18:30	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 18:30	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			07/29/13 18:30	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 18:30	1
1,2-Dibromo-3-Chloropropane	ND	*	0.50	0.21	ug/L			07/29/13 18:30	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 18:30	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 18:30	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 18:30	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 18:30	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 18:30	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 18:30	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 18:30	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 18:30	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 18:30	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 18:30	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 18:30	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 18:30	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 18:30	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 18:30	1
Acetone	2.2	J *	2.5	0.54	ug/L			07/29/13 18:30	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 18:30	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 18:30	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 18:30	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 18:30	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 18:30	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 18:30	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 18:30	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 18:30	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 18:30	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 18:30	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 18:30	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 18:30	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 18:30	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 18:30	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 18:30	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 18:30	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 18:30	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 18:30	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 18:30	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 18:30	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 18:30	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 65 Knowles Street

Lab Sample ID: 480-42551-13

Date Collected: 07/23/13 15:10

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 18:30	1
Naphthalene	ND	*	0.50	0.060	ug/L			07/29/13 18:30	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 18:30	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 18:30	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 18:30	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 18:30	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 18:30	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 18:30	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 18:30	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 18:30	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 18:30	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 18:30	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 18:30	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 18:30	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 18:30	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 18:30	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 18:30	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		07/29/13 18:30	1
4-Bromofluorobenzene (Surr)	91		80 - 120		07/29/13 18:30	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.11	J	0.20	0.040	ug/L		07/26/13 11:16	07/30/13 23:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	80		70 - 130	07/26/13 11:16	07/30/13 23:19	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-42551-15

Date Collected: 07/23/13 08:00

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 19:19	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 19:19	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 19:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 19:19	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 19:19	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 19:19	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 19:19	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 19:19	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 19:19	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 19:19	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			07/29/13 19:19	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 19:19	1
1,2-Dibromo-3-Chloropropane	ND	*	0.50	0.21	ug/L			07/29/13 19:19	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 19:19	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-42551-15

Date Collected: 07/23/13 08:00

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 19:19	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 19:19	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 19:19	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 19:19	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 19:19	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 19:19	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 19:19	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 19:19	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 19:19	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 19:19	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 19:19	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 19:19	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 19:19	1
Acetone	1.8	J *	2.5	0.54	ug/L			07/29/13 19:19	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 19:19	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 19:19	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 19:19	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 19:19	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 19:19	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 19:19	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 19:19	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 19:19	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 19:19	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 19:19	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 19:19	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 19:19	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 19:19	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 19:19	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 19:19	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 19:19	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 19:19	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 19:19	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 19:19	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 19:19	1
Methylene Chloride	0.27	J	0.50	0.25	ug/L			07/29/13 19:19	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 19:19	1
Naphthalene	ND	*	0.50	0.060	ug/L			07/29/13 19:19	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 19:19	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 19:19	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 19:19	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 19:19	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 19:19	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 19:19	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 19:19	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 19:19	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 19:19	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 19:19	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 19:19	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 19:19	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-42551-15

Date Collected: 07/23/13 08:00

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 19:19	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 19:19	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 19:19	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	100		80 - 120		07/29/13 19:19	1
4-Bromofluorobenzene (Surr)	108		80 - 120		07/29/13 19:19	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/26/13 11:16	07/30/13 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	82		70 - 130	07/26/13 11:16	07/30/13 23:43	1

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)
480-42551-1	Atlantic Oaks-South Well	108	99
480-42551-3	180 Schoolhouse Road	105	102
480-42551-5	20 Redberry Lane	109	103
480-42551-7	40 Starlight Lane	107	104
480-42551-9	275 Meetinghouse Road	105	93
480-42551-11	130 Glacier Hills Road	105	94
480-42551-13	65 Knowles Street	105	91
480-42551-15	Trip Blank	100	108
LCS 480-131116/6	Lab Control Sample	108	104
LCS 480-131257/4	Lab Control Sample	101	105
MB 480-131116/7	Method Blank	109	118
MB 480-131257/5	Method Blank	103	101
Surrogate Legend			
12DCB = 1,2-Dichlorobenzene-d4			
BFB = 4-Bromofluorobenzene (Surr)			

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	14DD8 (70-130)	
480-42551-1	Atlantic Oaks-South Well	97	
480-42551-3	180 Schoolhouse Road	90	
480-42551-5	20 Redberry Lane	86	
480-42551-7	40 Starlight Lane	91	
480-42551-9	275 Meetinghouse Road	81	
480-42551-11	130 Glacier Hills Road	72	
480-42551-13	65 Knowles Street	80	
480-42551-15	Trip Blank	82	
LCS 200-58983/2-A	Lab Control Sample	101	
MB 200-58983/1-A	Method Blank	107	
Surrogate Legend			
14DD8 = 1,4-Dioxane-d8 (Surr)			

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-131116/7

Matrix: Water

Analysis Batch: 131116

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 12:14	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 12:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 12:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 12:14	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 12:14	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 12:14	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 12:14	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 12:14	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 12:14	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 12:14	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 12:14	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 12:14	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 12:14	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 12:14	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 12:14	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 12:14	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 12:14	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 12:14	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 12:14	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 12:14	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 12:14	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 12:14	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 12:14	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 12:14	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 12:14	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 12:14	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 12:14	1
Acetone	ND		2.5	0.54	ug/L			07/29/13 12:14	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 12:14	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 12:14	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 12:14	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 12:14	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 12:14	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 12:14	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 12:14	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 12:14	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 12:14	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 12:14	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 12:14	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 12:14	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 12:14	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 12:14	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 12:14	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 12:14	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 12:14	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 12:14	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 12:14	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 12:14	1

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-131116/7

Matrix: Water

Analysis Batch: 131116

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 12:14	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 12:14	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 12:14	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 12:14	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 12:14	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 12:14	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 12:14	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 12:14	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 12:14	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 12:14	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 12:14	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 12:14	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 12:14	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 12:14	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 12:14	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 12:14	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 12:14	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 12:14	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 12:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	109		80 - 120		07/29/13 12:14	1
4-Bromofluorobenzene (Surr)	118		80 - 120		07/29/13 12:14	1

Lab Sample ID: LCS 480-131116/6

Matrix: Water

Analysis Batch: 131116

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.87		ug/L		97	70 - 130
1,1,1-Trichloroethane	4.00	3.50		ug/L		87	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.08		ug/L		77	70 - 130
1,1,2-Trichloroethane	4.00	3.87		ug/L		97	70 - 130
1,1-Dichloroethane	4.00	3.48		ug/L		87	70 - 130
1,1-Dichloroethene	4.00	3.24		ug/L		81	70 - 130
1,1-Dichloropropene	4.00	3.61		ug/L		90	70 - 130
1,2,3-Trichlorobenzene	4.00	3.90		ug/L		98	70 - 130
1,2,3-Trichloropropane	4.00	3.15		ug/L		79	70 - 130
1,2,4-Trichlorobenzene	4.00	6.03	*	ug/L		151	70 - 130
1,2,4-Trimethylbenzene	4.00	3.54		ug/L		88	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	5.41	*	ug/L		135	70 - 130
1,2-Dibromoethane	4.00	3.90		ug/L		97	70 - 130
1,2-Dichlorobenzene	4.00	3.82		ug/L		95	70 - 130
1,2-Dichloroethane	4.00	3.56		ug/L		89	70 - 130
1,2-Dichloropropane	4.00	3.57		ug/L		89	70 - 130
1,3,5-Trimethylbenzene	4.00	3.40		ug/L		85	70 - 130
1,3-Dichlorobenzene	4.00	3.52		ug/L		88	70 - 130
1,3-Dichloropropane	4.00	3.96		ug/L		99	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-131116/6

Matrix: Water

Analysis Batch: 131116

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.55		ug/L		89	70 - 130
2,2-Dichloropropane	4.00	3.37		ug/L		84	70 - 130
2-Butanone (MEK)	20.0	17.6		ug/L		88	70 - 130
2-Chlorotoluene	4.00	3.14		ug/L		78	70 - 130
4-Chlorotoluene	4.00	3.08		ug/L		77	70 - 130
4-Isopropyltoluene	4.00	3.63		ug/L		91	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.8		ug/L		94	70 - 130
Acetone	20.0	26.7	*	ug/L		134	70 - 130
Benzene	4.00	3.58		ug/L		90	70 - 130
Bromobenzene	4.00	3.33		ug/L		83	70 - 130
Bromochloromethane	4.00	3.75		ug/L		94	70 - 130
Bromoform	4.00	4.05		ug/L		101	70 - 130
Bromomethane	4.00	3.66		ug/L		91	70 - 130
Carbon tetrachloride	4.00	3.19		ug/L		80	70 - 130
Chlorobenzene	4.00	3.59		ug/L		90	70 - 130
Chlorodibromomethane	4.00	3.87		ug/L		97	70 - 130
Chloroethane	4.00	3.88		ug/L		97	70 - 130
Chloroform	4.00	3.48		ug/L		87	70 - 130
Chloromethane	4.00	3.72		ug/L		93	70 - 130
cis-1,2-Dichloroethene	4.00	3.32		ug/L		83	70 - 130
cis-1,3-Dichloropropene	4.00	3.57		ug/L		89	70 - 130
Dibromomethane	4.00	3.57		ug/L		89	70 - 130
Dichlorobromomethane	4.00	3.43		ug/L		86	70 - 130
Dichlorodifluoromethane	4.00	4.52		ug/L		113	70 - 130
Ethylbenzene	4.00	3.55		ug/L		89	70 - 130
Hexachlorobutadiene	4.00	5.10		ug/L		127	70 - 130
Isopropylbenzene	4.00	3.96		ug/L		99	70 - 130
Methyl tert-butyl ether	4.00	3.71		ug/L		93	70 - 130
Methylene Chloride	4.00	3.42		ug/L		86	70 - 130
Naphthalene	4.00	5.45	*	ug/L		136	70 - 130
n-Butylbenzene	4.00	3.68		ug/L		92	70 - 130
N-Propylbenzene	4.00	3.12		ug/L		78	70 - 130
sec-Butylbenzene	4.00	3.48		ug/L		87	70 - 130
Styrene	4.00	3.73		ug/L		93	70 - 130
tert-Butylbenzene	4.00	3.45		ug/L		86	70 - 130
Tetrachloroethene	4.00	4.16		ug/L		104	70 - 130
Toluene	4.00	3.81		ug/L		95	70 - 130
trans-1,2-Dichloroethene	4.00	3.51		ug/L		88	70 - 130
trans-1,3-Dichloropropene	4.00	3.65		ug/L		91	70 - 130
Trichloroethene	4.00	3.68		ug/L		92	70 - 130
Trichlorofluoromethane	4.00	3.63		ug/L		91	70 - 130
Vinyl chloride	4.00	4.10		ug/L		103	70 - 130
Xylenes, Total	12.0	10.9		ug/L		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	108		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-131257/5

Matrix: Water

Analysis Batch: 131257

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 23:53	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 23:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 23:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 23:53	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 23:53	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 23:53	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 23:53	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 23:53	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 23:53	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 23:53	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 23:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 23:53	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 23:53	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 23:53	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 23:53	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 23:53	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 23:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 23:53	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 23:53	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 23:53	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 23:53	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 23:53	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 23:53	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 23:53	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 23:53	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 23:53	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 23:53	1
Acetone	ND		2.5	0.54	ug/L			07/29/13 23:53	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 23:53	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 23:53	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 23:53	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 23:53	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 23:53	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 23:53	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 23:53	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 23:53	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 23:53	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 23:53	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 23:53	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 23:53	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 23:53	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 23:53	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 23:53	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 23:53	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 23:53	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 23:53	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 23:53	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 23:53	1

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-131257/5

Matrix: Water

Analysis Batch: 131257

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 23:53	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 23:53	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 23:53	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 23:53	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 23:53	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 23:53	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 23:53	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 23:53	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 23:53	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 23:53	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 23:53	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 23:53	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 23:53	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 23:53	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 23:53	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 23:53	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 23:53	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 23:53	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 23:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		07/29/13 23:53	1
4-Bromofluorobenzene (Surr)	101		80 - 120		07/29/13 23:53	1

Lab Sample ID: LCS 480-131257/4

Matrix: Water

Analysis Batch: 131257

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.43		ug/L		111	70 - 130
1,1,1-Trichloroethane	4.00	4.46		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.85		ug/L		96	70 - 130
1,1,2-Trichloroethane	4.00	4.15		ug/L		104	70 - 130
1,1-Dichloroethane	4.00	4.24		ug/L		106	70 - 130
1,1-Dichloroethene	4.00	4.08		ug/L		102	70 - 130
1,1-Dichloropropene	4.00	4.82		ug/L		121	70 - 130
1,2,3-Trichlorobenzene	4.00	4.17		ug/L		104	70 - 130
1,2,3-Trichloropropane	4.00	4.20		ug/L		105	70 - 130
1,2,4-Trichlorobenzene	4.00	4.18		ug/L		105	70 - 130
1,2,4-Trimethylbenzene	4.00	4.44		ug/L		111	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	4.20		ug/L		105	70 - 130
1,2-Dibromoethane	4.00	4.23		ug/L		106	70 - 130
1,2-Dichlorobenzene	4.00	4.11		ug/L		103	70 - 130
1,2-Dichloroethane	4.00	4.57		ug/L		114	70 - 130
1,2-Dichloropropane	4.00	4.14		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	4.00	4.40		ug/L		110	70 - 130
1,3-Dichlorobenzene	4.00	4.14		ug/L		104	70 - 130
1,3-Dichloropropane	4.00	4.35		ug/L		109	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-131257/4

Matrix: Water

Analysis Batch: 131257

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	4.06		ug/L		102	70 - 130
2,2-Dichloropropane	4.00	4.19		ug/L		105	70 - 130
2-Butanone (MEK)	20.0	19.8		ug/L		99	70 - 130
2-Chlorotoluene	4.00	4.24		ug/L		106	70 - 130
4-Chlorotoluene	4.00	4.22		ug/L		105	70 - 130
4-Isopropyltoluene	4.00	4.50		ug/L		112	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	21.0		ug/L		105	70 - 130
Acetone	20.0	17.3		ug/L		87	70 - 130
Benzene	4.00	4.25		ug/L		106	70 - 130
Bromobenzene	4.00	4.09		ug/L		102	70 - 130
Bromochloromethane	4.00	4.20		ug/L		105	70 - 130
Bromoform	4.00	4.18		ug/L		104	70 - 130
Bromomethane	4.00	3.31		ug/L		83	70 - 130
Carbon tetrachloride	4.00	4.67		ug/L		117	70 - 130
Chlorobenzene	4.00	4.20		ug/L		105	70 - 130
Chlorodibromomethane	4.00	4.43		ug/L		111	70 - 130
Chloroethane	4.00	3.56		ug/L		89	70 - 130
Chloroform	4.00	4.27		ug/L		107	70 - 130
Chloromethane	4.00	5.05		ug/L		126	70 - 130
cis-1,2-Dichloroethene	4.00	4.30		ug/L		107	70 - 130
cis-1,3-Dichloropropene	4.00	4.02		ug/L		101	70 - 130
Dibromomethane	4.00	4.22		ug/L		105	70 - 130
Dichlorobromomethane	4.00	4.42		ug/L		110	70 - 130
Dichlorodifluoromethane	4.00	5.54	*	ug/L		139	70 - 130
Ethylbenzene	4.00	4.46		ug/L		111	70 - 130
Hexachlorobutadiene	4.00	4.59		ug/L		115	70 - 130
Isopropylbenzene	4.00	4.65		ug/L		116	70 - 130
Methyl tert-butyl ether	4.00	3.84		ug/L		96	70 - 130
Methylene Chloride	4.00	3.80		ug/L		95	70 - 130
Naphthalene	4.00	4.17		ug/L		104	70 - 130
n-Butylbenzene	4.00	4.59		ug/L		115	70 - 130
N-Propylbenzene	4.00	4.30		ug/L		108	70 - 130
sec-Butylbenzene	4.00	4.57		ug/L		114	70 - 130
Styrene	4.00	4.41		ug/L		110	70 - 130
tert-Butylbenzene	4.00	4.45		ug/L		111	70 - 130
Tetrachloroethene	4.00	4.43		ug/L		111	70 - 130
Toluene	4.00	4.28		ug/L		107	70 - 130
trans-1,2-Dichloroethene	4.00	4.10		ug/L		102	70 - 130
trans-1,3-Dichloropropene	4.00	4.08		ug/L		102	70 - 130
Trichloroethene	4.00	4.22		ug/L		105	70 - 130
Trichlorofluoromethane	4.00	5.23	*	ug/L		131	70 - 130
Vinyl chloride	4.00	4.87		ug/L		122	70 - 130
Xylenes, Total	12.0	13.8		ug/L		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	101		80 - 120
4-Bromofluorobenzene (Surr)	105		80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-58983/1-A

Matrix: Water

Analysis Batch: 58887

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/26/13 11:16	07/26/13 13:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	107		70 - 130				07/26/13 11:16	07/26/13 13:34	1

Lab Sample ID: LCS 200-58983/2-A

Matrix: Water

Analysis Batch: 58887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.200	0.220		ug/L		110	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	101		70 - 130				

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

GC/MS VOA

Analysis Batch: 131116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42551-3	180 Schoolhouse Road	Total/NA	Water	524.2	
480-42551-5	20 Redberry Lane	Total/NA	Water	524.2	
480-42551-7	40 Starlight Lane	Total/NA	Water	524.2	
480-42551-9	275 Meetinghouse Road	Total/NA	Water	524.2	
480-42551-11	130 Glacier Hills Road	Total/NA	Water	524.2	
480-42551-13	65 Knowles Street	Total/NA	Water	524.2	
480-42551-15	Trip Blank	Total/NA	Water	524.2	
LCS 480-131116/6	Lab Control Sample	Total/NA	Water	524.2	
MB 480-131116/7	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 131257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42551-1	Atlantic Oaks-South Well	Total/NA	Water	524.2	
LCS 480-131257/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-131257/5	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Analysis Batch: 58887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42551-1	Atlantic Oaks-South Well	Total/NA	Water	522 MOD	58983
480-42551-3	180 Schoolhouse Road	Total/NA	Water	522 MOD	58983
480-42551-5	20 Redberry Lane	Total/NA	Water	522 MOD	58983
LCS 200-58983/2-A	Lab Control Sample	Total/NA	Water	522 MOD	58983
MB 200-58983/1-A	Method Blank	Total/NA	Water	522 MOD	58983

Prep Batch: 58983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42551-1	Atlantic Oaks-South Well	Total/NA	Water	3535A	
480-42551-3	180 Schoolhouse Road	Total/NA	Water	3535A	
480-42551-5	20 Redberry Lane	Total/NA	Water	3535A	
480-42551-7	40 Starlight Lane	Total/NA	Water	3535A	
480-42551-9	275 Meetinghouse Road	Total/NA	Water	3535A	
480-42551-11	130 Glacier Hills Road	Total/NA	Water	3535A	
480-42551-13	65 Knowles Street	Total/NA	Water	3535A	
480-42551-15	Trip Blank	Total/NA	Water	3535A	
LCS 200-58983/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-58983/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 59143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42551-7	40 Starlight Lane	Total/NA	Water	522 MOD	58983
480-42551-9	275 Meetinghouse Road	Total/NA	Water	522 MOD	58983
480-42551-13	65 Knowles Street	Total/NA	Water	522 MOD	58983
480-42551-15	Trip Blank	Total/NA	Water	522 MOD	58983

Analysis Batch: 59162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42551-11	130 Glacier Hills Road	Total/NA	Water	522 MOD	58983

TestAmerica Buffalo

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: Atlantic Oaks-South Well

Lab Sample ID: 480-42551-1

Date Collected: 07/23/13 09:50

Matrix: Water

Date Received: 07/25/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131257	07/30/13 01:23	TRB	TAL BUF
Total/NA	Prep	3535A			58983	07/26/13 11:16	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	58887	07/26/13 13:56	JE1	TAL BUR

Client Sample ID: 180 Schoolhouse Road

Lab Sample ID: 480-42551-3

Date Collected: 07/23/13 10:40

Matrix: Water

Date Received: 07/25/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131116	07/29/13 14:22	CDC	TAL BUF
Total/NA	Prep	3535A			58983	07/26/13 11:16	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	58887	07/26/13 14:21	JE1	TAL BUR

Client Sample ID: 20 Redberry Lane

Lab Sample ID: 480-42551-5

Date Collected: 07/23/13 11:25

Matrix: Water

Date Received: 07/25/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131116	07/29/13 15:12	CDC	TAL BUF
Total/NA	Prep	3535A			58983	07/26/13 11:16	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	58887	07/26/13 14:54	JE1	TAL BUR

Client Sample ID: 40 Starlight Lane

Lab Sample ID: 480-42551-7

Date Collected: 07/23/13 12:30

Matrix: Water

Date Received: 07/25/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131116	07/29/13 16:01	CDC	TAL BUF
Total/NA	Prep	3535A			58983	07/26/13 11:16	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	59143	07/30/13 22:09	RJH	TAL BUR

Client Sample ID: 275 Meetinghouse Road

Lab Sample ID: 480-42551-9

Date Collected: 07/23/13 13:20

Matrix: Water

Date Received: 07/25/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131116	07/29/13 16:51	CDC	TAL BUF
Total/NA	Prep	3535A			58983	07/26/13 11:16	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	59143	07/30/13 22:33	RJH	TAL BUR

TestAmerica Buffalo

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 130 Glacier Hills Road

Lab Sample ID: 480-42551-11

Date Collected: 07/23/13 14:15

Matrix: Water

Date Received: 07/25/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131116	07/29/13 17:41	CDC	TAL BUF
Total/NA	Prep	3535A			58983	07/26/13 11:16	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	59162	07/31/13 10:07	RJH	TAL BUR

Client Sample ID: 65 Knowles Street

Lab Sample ID: 480-42551-13

Date Collected: 07/23/13 15:10

Matrix: Water

Date Received: 07/25/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131116	07/29/13 18:30	CDC	TAL BUF
Total/NA	Prep	3535A			58983	07/26/13 11:16	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	59143	07/30/13 23:19	RJH	TAL BUR

Client Sample ID: Trip Blank

Lab Sample ID: 480-42551-15

Date Collected: 07/23/13 08:00

Matrix: Water

Date Received: 07/25/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131116	07/29/13 19:19	CDC	TAL BUF
Total/NA	Prep	3535A			58983	07/26/13 11:16	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	59143	07/30/13 23:43	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13 *
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-13 *
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13 *

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-42551-1	Atlantic Oaks-South Well	Water	07/23/13 09:50	07/25/13 03:00
480-42551-3	180 Schoolhouse Road	Water	07/23/13 10:40	07/25/13 03:00
480-42551-5	20 Redberry Lane	Water	07/23/13 11:25	07/25/13 03:00
480-42551-7	40 Starlight Lane	Water	07/23/13 12:30	07/25/13 03:00
480-42551-9	275 Meetinghouse Road	Water	07/23/13 13:20	07/25/13 03:00
480-42551-11	130 Glacier Hills Road	Water	07/23/13 14:15	07/25/13 03:00
480-42551-13	65 Knowles Street	Water	07/23/13 15:10	07/25/13 03:00
480-42551-15	Trip Blank	Water	07/23/13 08:00	07/25/13 03:00

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: David Bennett		Site Contact:		Date:		COC No:	
Bennett Environmental Associates, Inc.		Tel/Fax: 508-896-1706		Lab Contact:		Carrier:		1 of 2 COCs	
Address: 1573 Main St. / P.O. Box 1743		Analysis Turnaround Time		Calendar (C) or Work Days (W)		C		For Lab Use Only:	
City/State/Zip: Brewster, MA 02631		TAT if different from Below		2 weeks		1 week		Walk-in Client:	
Phone: 508-896-1706		1 day		2 days		1 day		Lab Sampling:	
FAX: 508-896-5109		Sample Date		Sample Time		Sample Type		Matrix	
Project Name: Eastham Landfill		# of Cont.		Filtered Sample (Y/N)		Composite = C / Grab = G		VOCs via 524.2	
Site: Town of Eastham		Sample Identification		Sample Date		Sample Time		Sample Type	
PO #: BEA09-10104		Sample Date		Sample Time		Sample Type		Matrix	
Atlantic Oaks - South Well	7/23/2013	9:50 am	G	W	5	N	G	3	2
Atlantic Oaks - North Well Duplicate	7/23/2013	9:50 am	G	W	4	N	G	3	1
180 Schoolhouse Road	7/23/2013	10:40 am	G	W	5	N	G	3	2
180 Schoolhouse Road Duplicate	7/23/2013	10:40 am	G	W	4	N	G	3	1
20 Redberry Lane	7/23/2013	11:25 am	G	W	5	N	G	3	2
20 Redberry Lane Duplicate	7/23/2013	11:25 am	G	W	4	N	G	3	1
40 Starlight Lane	7/23/2013	12:30 pm	G	W	5	N	G	3	2
40 Starlight Lane Duplicate	7/23/2013	12:30 pm	G	W	4	N	G	3	1
275 Meetinghouse Road	7/23/2013	1:20 pm	G	W	5	N	G	3	2
275 Meetinghouse Road Duplicate	7/23/2013	1:20 pm	G	W	4	N	G	3	1
130 Glacier Hills Road	7/23/2013	2:15 pm	G	W	5	N	G	3	2
130 Glacier Hills Road Duplicate	7/23/2013	2:15 pm	G	W	4	N	G	3	1

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

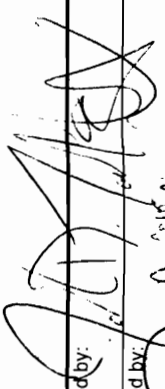
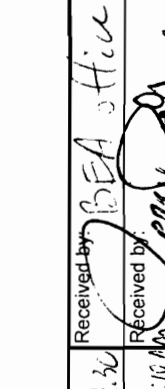
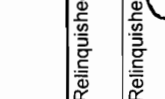
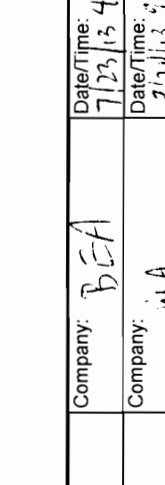
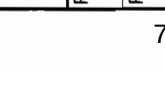
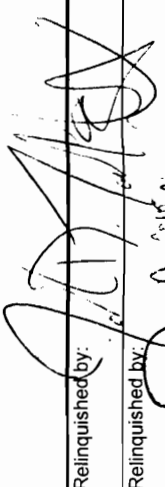
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

1,2,1,2

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

2.1 #1

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	BEA	7/23/13 4:30		BEA office	
	BEA	7/23/13 4:30		BEA	7/24/13 0910
	BEA	7/24/13 0800		BEA	7/25/13 0300

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: **MA MCP**

TestAmerica Laboratories, Inc.

[illegible]

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

Relinquished by: 	Company: BEA	Date/Time: 7/23/13 4:30	Received by: BEA office	Company:	Date/Time:
Relinquished by: 	Company: BEA	Date/Time: 7/24/13 9:15	Received by: 	Company:	Date/Time: 7-24-13 0810
Relinquished by: 	Company:	Date/Time: 7/24/13 12:00	Received in Laboratory by: 	Company: TAC	Date/Time: 7-25-13 0300

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-42551-1

Login Number: 42551

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	False	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-42551-1

Login Number: 42551

List Number: 1

Creator: Gagne, Eric M

List Source: TestAmerica Burlington

List Creation: 07/25/13 02:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	No SEALS
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	1.2°C IR GUN ID 181. CF -0.2
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-42639-1

Client Project/Site: Eastham Landfill IRA

For:

Bennett Environmental Associates, Inc.

1573 Main St.

Brewster, Massachusetts 02631

Attn: David Bennett



Authorized for release by:

7/31/2013 4:31:37 PM

Steve Hartmann, Lab Director

steve.hartmann@testamericainc.com

LINKS

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results through

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Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Job ID: 480-42639-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-42639-1

Receipt

The samples were received on 7/26/2013 3:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

GC/MS VOA (524.2)

Method(s) 524.2: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for batch 131130 recovered outside control limits for the following analytes: Bromomethane. The data have been qualified and reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA (522MOD)

No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 13 Eldia Way

Lab Sample ID: 480-42639-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	2.8		2.5	0.54	ug/L		1		524.2	Total/NA
cis-1,2-Dichloroethene	0.14	J	0.50	0.12	ug/L		1		524.2	Total/NA
Methyl tert-butyl ether	0.15	J	0.50	0.12	ug/L		1		524.2	Total/NA
1,4-Dioxane	0.33		0.20	0.040	ug/L		1		522 MOD	Total/NA

Client Sample ID: 385 Meetinghouse Road

Lab Sample ID: 480-42639-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.94	J	2.5	0.54	ug/L		1		524.2	Total/NA
Chloroform	0.79		0.50	0.14	ug/L		1		524.2	Total/NA
1,4-Dioxane	0.040	J	0.20	0.040	ug/L		1		522 MOD	Total/NA

Client Sample ID: 40 Deepwood Drive

Lab Sample ID: 480-42639-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.6	J	2.5	0.54	ug/L		1		524.2	Total/NA
Chloroform	3.9		0.50	0.14	ug/L		1		524.2	Total/NA
Methyl tert-butyl ether	0.16	J	0.50	0.12	ug/L		1		524.2	Total/NA
Trihalomethanes, Total	3.9		2.0	1.0	ug/L		1		524.2	Total/NA

Client Sample ID: 4 Whidah Way

Lab Sample ID: 480-42639-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.89	J	2.5	0.54	ug/L		1		524.2	Total/NA
Methyl tert-butyl ether	0.23	J	0.50	0.12	ug/L		1		524.2	Total/NA

Client Sample ID: 45 Deepwood Drive

Lab Sample ID: 480-42639-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	2.2	J	2.5	0.54	ug/L		1		524.2	Total/NA
Chloroform	0.67		0.50	0.14	ug/L		1		524.2	Total/NA

Client Sample ID: 150 Glacier Hills Road

Lab Sample ID: 480-42639-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	3.7		2.5	0.54	ug/L		1		524.2	Total/NA
Chloroform	0.87		0.50	0.14	ug/L		1		524.2	Total/NA

Client Sample ID: 400 Meetinghouse Road

Lab Sample ID: 480-42639-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.85	J	2.5	0.54	ug/L		1		524.2	Total/NA
Chloroform	1.0		0.50	0.14	ug/L		1		524.2	Total/NA
Methyl tert-butyl ether	0.14	J	0.50	0.12	ug/L		1		524.2	Total/NA
Trihalomethanes, Total	1.0	J	2.0	1.0	ug/L		1		524.2	Total/NA
1,4-Dioxane	0.12	J	0.20	0.040	ug/L		1		522 MOD	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-42639-15

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: Trip Blank (Continued)

Lab Sample ID: 480-42639-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.57	J	2.5	0.25	ug/L	1		524.2	Total/NA
Acetone	7.7		2.5	0.54	ug/L	1		524.2	Total/NA
Naphthalene	0.26	J	0.50	0.060	ug/L	1		524.2	Total/NA
o-Xylene	0.069	J	0.50	0.044	ug/L	1		524.2	Total/NA
Toluene	0.13	J	0.50	0.10	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 13 Eldia Way

Lab Sample ID: 480-42639-1

Date Collected: 07/24/13 09:50

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 15:01	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 15:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 15:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 15:01	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 15:01	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 15:01	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 15:01	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 15:01	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 15:01	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 15:01	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 15:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 15:01	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 15:01	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 15:01	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 15:01	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 15:01	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 15:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 15:01	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 15:01	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 15:01	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 15:01	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 15:01	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 15:01	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 15:01	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 15:01	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 15:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 15:01	1
Acetone	2.8		2.5	0.54	ug/L			07/29/13 15:01	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 15:01	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 15:01	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 15:01	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 15:01	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 15:01	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 15:01	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 15:01	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 15:01	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 15:01	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 15:01	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 15:01	1
cis-1,2-Dichloroethene	0.14	J	0.50	0.12	ug/L			07/29/13 15:01	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 15:01	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 15:01	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 15:01	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 15:01	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 15:01	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 15:01	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 15:01	1
Methyl tert-butyl ether	0.15	J	0.50	0.12	ug/L			07/29/13 15:01	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 15:01	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 13 Eldia Way

Lab Sample ID: 480-42639-1

Date Collected: 07/24/13 09:50

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 15:01	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 15:01	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 15:01	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 15:01	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 15:01	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 15:01	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 15:01	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 15:01	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 15:01	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 15:01	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 15:01	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 15:01	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 15:01	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 15:01	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 15:01	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 15:01	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 15:01	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		07/29/13 15:01	1
4-Bromofluorobenzene (Surr)	98		80 - 120		07/29/13 15:01	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.33		0.20	0.040	ug/L		07/29/13 19:47	07/31/13 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	72		70 - 130	07/29/13 19:47	07/31/13 01:14	1

Client Sample ID: 385 Meetinghouse Road

Lab Sample ID: 480-42639-3

Date Collected: 07/24/13 10:50

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 15:53	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 15:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 15:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 15:53	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 15:53	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 15:53	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 15:53	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 15:53	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 15:53	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 15:53	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 15:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 15:53	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 15:53	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 15:53	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 385 Meetinghouse Road

Lab Sample ID: 480-42639-3

Date Collected: 07/24/13 10:50

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 15:53	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 15:53	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 15:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 15:53	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 15:53	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 15:53	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 15:53	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 15:53	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 15:53	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 15:53	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 15:53	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 15:53	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 15:53	1
Acetone	0.94	J	2.5	0.54	ug/L			07/29/13 15:53	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 15:53	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 15:53	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 15:53	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 15:53	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 15:53	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 15:53	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 15:53	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 15:53	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 15:53	1
Chloroform	0.79		0.50	0.14	ug/L			07/29/13 15:53	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 15:53	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 15:53	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 15:53	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 15:53	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 15:53	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 15:53	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 15:53	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 15:53	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 15:53	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 15:53	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 15:53	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 15:53	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 15:53	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 15:53	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 15:53	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 15:53	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 15:53	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 15:53	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 15:53	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 15:53	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 15:53	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 15:53	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 15:53	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 15:53	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 15:53	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 385 Meetinghouse Road

Lab Sample ID: 480-42639-3

Date Collected: 07/24/13 10:50

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 15:53	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 15:53	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 15:53	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 15:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120					07/29/13 15:53	1
4-Bromofluorobenzene (Surr)	97		80 - 120					07/29/13 15:53	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.040	J	0.20	0.040	ug/L		07/29/13 19:47	07/31/13 01:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	71		70 - 130				07/29/13 19:47	07/31/13 01:36	1

Client Sample ID: 40 Deepwood Drive

Lab Sample ID: 480-42639-5

Date Collected: 07/24/13 11:45

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 16:44	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 16:44	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 16:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 16:44	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 16:44	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 16:44	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 16:44	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 16:44	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 16:44	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 16:44	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 16:44	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 16:44	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 16:44	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 16:44	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 16:44	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 16:44	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 16:44	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 16:44	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 16:44	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 16:44	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 16:44	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 16:44	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 16:44	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 16:44	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 16:44	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 16:44	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 16:44	1
Acetone	1.6	J	2.5	0.54	ug/L			07/29/13 16:44	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 40 Deepwood Drive

Lab Sample ID: 480-42639-5

Date Collected: 07/24/13 11:45

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/29/13 16:44	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 16:44	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 16:44	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 16:44	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 16:44	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 16:44	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 16:44	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 16:44	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 16:44	1
Chloroform	3.9		0.50	0.14	ug/L			07/29/13 16:44	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 16:44	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 16:44	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 16:44	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 16:44	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 16:44	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 16:44	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 16:44	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 16:44	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 16:44	1
Methyl tert-butyl ether	0.16 J		0.50	0.12	ug/L			07/29/13 16:44	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 16:44	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 16:44	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 16:44	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 16:44	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 16:44	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 16:44	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 16:44	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 16:44	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 16:44	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 16:44	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 16:44	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 16:44	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 16:44	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 16:44	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 16:44	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 16:44	1
Trihalomethanes, Total	3.9		2.0	1.0	ug/L			07/29/13 16:44	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 16:44	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	106		80 - 120		07/29/13 16:44	1
4-Bromofluorobenzene (Surr)	97		80 - 120		07/29/13 16:44	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/29/13 19:47	07/31/13 01:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	75		70 - 130	07/29/13 19:47	07/31/13 01:59	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 4 Whidah Way

Lab Sample ID: 480-42639-7

Date Collected: 07/24/13 12:40

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 17:35	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 17:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 17:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 17:35	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 17:35	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 17:35	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 17:35	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 17:35	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 17:35	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 17:35	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 17:35	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 17:35	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 17:35	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 17:35	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 17:35	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 17:35	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 17:35	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 17:35	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 17:35	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 17:35	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 17:35	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 17:35	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 17:35	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 17:35	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 17:35	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 17:35	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 17:35	1
Acetone	0.89 J		2.5	0.54	ug/L			07/29/13 17:35	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 17:35	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 17:35	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 17:35	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 17:35	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 17:35	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 17:35	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 17:35	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 17:35	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 17:35	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 17:35	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 17:35	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 17:35	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 17:35	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 17:35	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 17:35	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 17:35	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 17:35	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 17:35	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 17:35	1
Methyl tert-butyl ether	0.23 J		0.50	0.12	ug/L			07/29/13 17:35	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 17:35	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 4 Whidah Way

Lab Sample ID: 480-42639-7

Date Collected: 07/24/13 12:40

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 17:35	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 17:35	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 17:35	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 17:35	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 17:35	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 17:35	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 17:35	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 17:35	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 17:35	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 17:35	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 17:35	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 17:35	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 17:35	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 17:35	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 17:35	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 17:35	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 17:35	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	106		80 - 120		07/29/13 17:35	1
4-Bromofluorobenzene (Surr)	100		80 - 120		07/29/13 17:35	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/29/13 19:47	07/31/13 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	82		70 - 130	07/29/13 19:47	07/31/13 02:22	1

Client Sample ID: 45 Deepwood Drive

Lab Sample ID: 480-42639-9

Date Collected: 07/24/13 13:25

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 18:27	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 18:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 18:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 18:27	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 18:27	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 18:27	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 18:27	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 18:27	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 18:27	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 18:27	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 18:27	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 18:27	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 18:27	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 18:27	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 45 Deepwood Drive

Lab Sample ID: 480-42639-9

Date Collected: 07/24/13 13:25

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 18:27	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 18:27	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 18:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 18:27	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 18:27	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 18:27	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 18:27	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 18:27	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 18:27	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 18:27	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 18:27	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 18:27	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 18:27	1
Acetone	2.2	J	2.5	0.54	ug/L			07/29/13 18:27	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 18:27	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 18:27	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 18:27	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 18:27	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 18:27	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 18:27	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 18:27	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 18:27	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 18:27	1
Chloroform	0.67		0.50	0.14	ug/L			07/29/13 18:27	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 18:27	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 18:27	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 18:27	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 18:27	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 18:27	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 18:27	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 18:27	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 18:27	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 18:27	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 18:27	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 18:27	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 18:27	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 18:27	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 18:27	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 18:27	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 18:27	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 18:27	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 18:27	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 18:27	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 18:27	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 18:27	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 18:27	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 18:27	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 18:27	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 18:27	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 45 Deepwood Drive

Lab Sample ID: 480-42639-9

Date Collected: 07/24/13 13:25

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 18:27	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 18:27	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 18:27	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	106		80 - 120		07/29/13 18:27	1
4-Bromofluorobenzene (Surr)	98		80 - 120		07/29/13 18:27	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/29/13 19:47	07/31/13 02:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	73		70 - 130	07/29/13 19:47	07/31/13 02:46	1

Client Sample ID: 150 Glacier Hills Road

Lab Sample ID: 480-42639-11

Date Collected: 07/24/13 14:30

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 19:18	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 19:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 19:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 19:18	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 19:18	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 19:18	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 19:18	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 19:18	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 19:18	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 19:18	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 19:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 19:18	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 19:18	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 19:18	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 19:18	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 19:18	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 19:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 19:18	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 19:18	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 19:18	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 19:18	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 19:18	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 19:18	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 19:18	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 19:18	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 19:18	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 19:18	1
Acetone	3.7		2.5	0.54	ug/L			07/29/13 19:18	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 150 Glacier Hills Road

Lab Sample ID: 480-42639-11

Date Collected: 07/24/13 14:30

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/29/13 19:18	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 19:18	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 19:18	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 19:18	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 19:18	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 19:18	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 19:18	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 19:18	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 19:18	1
Chloroform	0.87		0.50	0.14	ug/L			07/29/13 19:18	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 19:18	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 19:18	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 19:18	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 19:18	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 19:18	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 19:18	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 19:18	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 19:18	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 19:18	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 19:18	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 19:18	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 19:18	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 19:18	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 19:18	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 19:18	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 19:18	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 19:18	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 19:18	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 19:18	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 19:18	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 19:18	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 19:18	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 19:18	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 19:18	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 19:18	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 19:18	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 19:18	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 19:18	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	108		80 - 120		07/29/13 19:18	1
4-Bromofluorobenzene (Surr)	99		80 - 120		07/29/13 19:18	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/29/13 19:47	07/31/13 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	78		70 - 130	07/29/13 19:47	07/31/13 03:09	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 400 Meetinghouse Road

Lab Sample ID: 480-42639-13

Date Collected: 07/24/13 15:25

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 20:09	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 20:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 20:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 20:09	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 20:09	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 20:09	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 20:09	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 20:09	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 20:09	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 20:09	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 20:09	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 20:09	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 20:09	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 20:09	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 20:09	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 20:09	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 20:09	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 20:09	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 20:09	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 20:09	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 20:09	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 20:09	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 20:09	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 20:09	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 20:09	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 20:09	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 20:09	1
Acetone	0.85	J	2.5	0.54	ug/L			07/29/13 20:09	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 20:09	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 20:09	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 20:09	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 20:09	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 20:09	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 20:09	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 20:09	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 20:09	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 20:09	1
Chloroform	1.0		0.50	0.14	ug/L			07/29/13 20:09	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 20:09	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 20:09	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 20:09	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 20:09	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 20:09	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 20:09	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 20:09	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 20:09	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 20:09	1
Methyl tert-butyl ether	0.14	J	0.50	0.12	ug/L			07/29/13 20:09	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 20:09	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 400 Meetinghouse Road

Lab Sample ID: 480-42639-13

Date Collected: 07/24/13 15:25

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 20:09	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 20:09	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 20:09	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 20:09	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 20:09	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 20:09	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 20:09	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 20:09	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 20:09	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 20:09	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 20:09	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 20:09	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 20:09	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 20:09	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 20:09	1
Trihalomethanes, Total	1.0	J	2.0	1.0	ug/L			07/29/13 20:09	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 20:09	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	108		80 - 120		07/29/13 20:09	1
4-Bromofluorobenzene (Surr)	98		80 - 120		07/29/13 20:09	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.12	J	0.20	0.040	ug/L		07/29/13 19:47	07/31/13 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	75		70 - 130	07/29/13 19:47	07/31/13 03:32	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-42639-15

Date Collected: 07/23/13 08:30

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 21:00	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 21:00	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 21:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 21:00	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 21:00	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 21:00	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 21:00	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 21:00	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 21:00	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 21:00	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 21:00	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 21:00	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 21:00	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 21:00	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-42639-15

Date Collected: 07/23/13 08:30

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 21:00	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 21:00	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 21:00	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 21:00	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 21:00	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 21:00	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 21:00	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 21:00	1
2-Butanone (MEK)	0.57	J	2.5	0.25	ug/L			07/29/13 21:00	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 21:00	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 21:00	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 21:00	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 21:00	1
Acetone	7.7		2.5	0.54	ug/L			07/29/13 21:00	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 21:00	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 21:00	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 21:00	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 21:00	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 21:00	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 21:00	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 21:00	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 21:00	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 21:00	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 21:00	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 21:00	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 21:00	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 21:00	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 21:00	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 21:00	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 21:00	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 21:00	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 21:00	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 21:00	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 21:00	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 21:00	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 21:00	1
Naphthalene	0.26	J	0.50	0.060	ug/L			07/29/13 21:00	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 21:00	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 21:00	1
o-Xylene	0.069	J	0.50	0.044	ug/L			07/29/13 21:00	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 21:00	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 21:00	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 21:00	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 21:00	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 21:00	1
Toluene	0.13	J	0.50	0.10	ug/L			07/29/13 21:00	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 21:00	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 21:00	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 21:00	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-42639-15

Date Collected: 07/23/13 08:30

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 21:00	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 21:00	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 21:00	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		07/29/13 21:00	1
4-Bromofluorobenzene (Surr)	98		80 - 120		07/29/13 21:00	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/29/13 19:47	07/31/13 03:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	80		70 - 130	07/29/13 19:47	07/31/13 03:55	1

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)
480-42639-1	13 Eldia Way	103	98
480-42639-3	385 Meetinghouse Road	103	97
480-42639-5	40 Deepwood Drive	106	97
480-42639-7	4 Whidah Way	106	100
480-42639-9	45 Deepwood Drive	106	98
480-42639-11	150 Glacier Hills Road	108	99
480-42639-13	400 Meetinghouse Road	108	98
480-42639-15	Trip Blank	103	98
LCS 480-131130/6	Lab Control Sample	103	100
LCSD 480-131130/7	Lab Control Sample Dup	102	100
MB 480-131130/8	Method Blank	103	96

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	14DD8 (70-130)	
480-42639-1	13 Eldia Way	72	
480-42639-3	385 Meetinghouse Road	71	
480-42639-5	40 Deepwood Drive	75	
480-42639-7	4 Whidah Way	82	
480-42639-9	45 Deepwood Drive	73	
480-42639-11	150 Glacier Hills Road	78	
480-42639-13	400 Meetinghouse Road	75	
480-42639-15	Trip Blank	80	
LCS 200-59097/2-A	Lab Control Sample	78	
MB 200-59097/1-A	Method Blank	77	

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-131130/8

Matrix: Water

Analysis Batch: 131130

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 13:11	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 13:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 13:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 13:11	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 13:11	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 13:11	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 13:11	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 13:11	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 13:11	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 13:11	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 13:11	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 13:11	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 13:11	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 13:11	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 13:11	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 13:11	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 13:11	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 13:11	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 13:11	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 13:11	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 13:11	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 13:11	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 13:11	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 13:11	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 13:11	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 13:11	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 13:11	1
Acetone	ND		2.5	0.54	ug/L			07/29/13 13:11	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 13:11	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 13:11	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 13:11	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 13:11	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 13:11	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 13:11	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 13:11	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 13:11	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 13:11	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 13:11	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 13:11	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 13:11	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 13:11	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 13:11	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 13:11	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 13:11	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 13:11	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 13:11	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 13:11	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 13:11	1

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-131130/8

Matrix: Water

Analysis Batch: 131130

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 13:11	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 13:11	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 13:11	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 13:11	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 13:11	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 13:11	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 13:11	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 13:11	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 13:11	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 13:11	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 13:11	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 13:11	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 13:11	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 13:11	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 13:11	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 13:11	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 13:11	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 13:11	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 13:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		07/29/13 13:11	1
4-Bromofluorobenzene (Surr)	96		80 - 120		07/29/13 13:11	1

Lab Sample ID: LCS 480-131130/6

Matrix: Water

Analysis Batch: 131130

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.84		ug/L		96	70 - 130
1,1,1-Trichloroethane	4.00	3.59		ug/L		90	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.69		ug/L		92	70 - 130
1,1,2-Trichloroethane	4.00	3.76		ug/L		94	70 - 130
1,1-Dichloroethane	4.00	3.66		ug/L		92	70 - 130
1,1-Dichloroethene	4.00	3.54		ug/L		89	70 - 130
1,1-Dichloropropene	4.00	4.03		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	4.00	4.17		ug/L		104	70 - 130
1,2,3-Trichloropropane	4.00	3.72		ug/L		93	70 - 130
1,2,4-Trichlorobenzene	4.00	4.04		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	4.00	3.96		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.82		ug/L		96	70 - 130
1,2-Dibromoethane	4.00	3.78		ug/L		94	70 - 130
1,2-Dichlorobenzene	4.00	3.88		ug/L		97	70 - 130
1,2-Dichloroethane	4.00	3.65		ug/L		91	70 - 130
1,2-Dichloropropane	4.00	3.87		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	4.00	3.91		ug/L		98	70 - 130
1,3-Dichlorobenzene	4.00	3.89		ug/L		97	70 - 130
1,3-Dichloropropane	4.00	3.81		ug/L		95	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-131130/6

Matrix: Water

Analysis Batch: 131130

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.80		ug/L		95	70 - 130
2,2-Dichloropropane	4.00	3.35		ug/L		84	70 - 130
2-Butanone (MEK)	20.0	19.2		ug/L		96	70 - 130
2-Chlorotoluene	4.00	3.85		ug/L		96	70 - 130
4-Chlorotoluene	4.00	3.75		ug/L		94	70 - 130
4-Isopropyltoluene	4.00	4.10		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	20.1		ug/L		101	70 - 130
Acetone	20.0	17.4		ug/L		87	70 - 130
Benzene	4.00	3.88		ug/L		97	70 - 130
Bromobenzene	4.00	3.86		ug/L		96	70 - 130
Bromochloromethane	4.00	3.90		ug/L		98	70 - 130
Bromoform	4.00	3.65		ug/L		91	70 - 130
Bromomethane	4.00	2.98		ug/L		74	70 - 130
Carbon tetrachloride	4.00	3.54		ug/L		89	70 - 130
Chlorobenzene	4.00	3.76		ug/L		94	70 - 130
Chlorodibromomethane	4.00	3.61		ug/L		90	70 - 130
Chloroethane	4.00	3.64		ug/L		91	70 - 130
Chloroform	4.00	3.58		ug/L		90	70 - 130
Chloromethane	4.00	4.41		ug/L		110	70 - 130
cis-1,2-Dichloroethene	4.00	3.71		ug/L		93	70 - 130
cis-1,3-Dichloropropene	4.00	3.50		ug/L		88	70 - 130
Dibromomethane	4.00	3.63		ug/L		91	70 - 130
Dichlorobromomethane	4.00	3.57		ug/L		89	70 - 130
Dichlorodifluoromethane	4.00	4.26		ug/L		106	70 - 130
Ethylbenzene	4.00	3.91		ug/L		98	70 - 130
Hexachlorobutadiene	4.00	4.14		ug/L		104	70 - 130
Isopropylbenzene	4.00	4.03		ug/L		101	70 - 130
Methyl tert-butyl ether	4.00	3.76		ug/L		94	70 - 130
Methylene Chloride	4.00	3.62		ug/L		90	70 - 130
Naphthalene	4.00	4.08		ug/L		102	70 - 130
n-Butylbenzene	4.00	4.13		ug/L		103	70 - 130
N-Propylbenzene	4.00	3.89		ug/L		97	70 - 130
sec-Butylbenzene	4.00	4.09		ug/L		102	70 - 130
Styrene	4.00	3.83		ug/L		96	70 - 130
tert-Butylbenzene	4.00	4.00		ug/L		100	70 - 130
Tetrachloroethene	4.00	3.79		ug/L		95	70 - 130
Toluene	4.00	3.83		ug/L		96	70 - 130
trans-1,2-Dichloroethene	4.00	3.83		ug/L		96	70 - 130
trans-1,3-Dichloropropene	4.00	3.43		ug/L		86	70 - 130
Trichloroethene	4.00	3.80		ug/L		95	70 - 130
Trichlorofluoromethane	4.00	4.09		ug/L		102	70 - 130
Vinyl chloride	4.00	4.19		ug/L		105	70 - 130
Xylenes, Total	12.0	11.8		ug/L		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	103		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-131130/7

Matrix: Water

Analysis Batch: 131130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.00	3.86		ug/L		97	70 - 130	1	20
1,1,1-Trichloroethane	4.00	3.61		ug/L		90	70 - 130	1	20
1,1,2,2-Tetrachloroethane	4.00	3.67		ug/L		92	70 - 130	1	20
1,1,2-Trichloroethane	4.00	3.64		ug/L		91	70 - 130	3	20
1,1-Dichloroethane	4.00	3.69		ug/L		92	70 - 130	1	20
1,1-Dichloroethene	4.00	3.55		ug/L		89	70 - 130	0	20
1,1-Dichloropropene	4.00	4.13		ug/L		103	70 - 130	2	20
1,2,3-Trichlorobenzene	4.00	4.20		ug/L		105	70 - 130	1	20
1,2,3-Trichloropropane	4.00	3.84		ug/L		96	70 - 130	3	20
1,2,4-Trichlorobenzene	4.00	4.01		ug/L		100	70 - 130	1	20
1,2,4-Trimethylbenzene	4.00	3.88		ug/L		97	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	4.00	3.74		ug/L		93	70 - 130	2	20
1,2-Dibromoethane	4.00	3.83		ug/L		96	70 - 130	1	20
1,2-Dichlorobenzene	4.00	3.86		ug/L		97	70 - 130	0	20
1,2-Dichloroethane	4.00	3.76		ug/L		94	70 - 130	3	20
1,2-Dichloropropane	4.00	3.68		ug/L		92	70 - 130	5	20
1,3,5-Trimethylbenzene	4.00	3.87		ug/L		97	70 - 130	1	20
1,3-Dichlorobenzene	4.00	3.80		ug/L		95	70 - 130	2	20
1,3-Dichloropropane	4.00	3.86		ug/L		96	70 - 130	1	20
1,4-Dichlorobenzene	4.00	3.72		ug/L		93	70 - 130	2	20
2,2-Dichloropropane	4.00	3.41		ug/L		85	70 - 130	2	20
2-Butanone (MEK)	20.0	20.9		ug/L		104	70 - 130	8	20
2-Chlorotoluene	4.00	3.75		ug/L		94	70 - 130	3	20
4-Chlorotoluene	4.00	3.65		ug/L		91	70 - 130	3	20
4-Isopropyltoluene	4.00	4.04		ug/L		101	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	20.0	21.0		ug/L		105	70 - 130	4	20
Acetone	20.0	18.3		ug/L		92	70 - 130	5	20
Benzene	4.00	3.86		ug/L		96	70 - 130	1	20
Bromobenzene	4.00	3.76		ug/L		94	70 - 130	3	20
Bromochloromethane	4.00	3.80		ug/L		95	70 - 130	3	20
Bromoform	4.00	3.68		ug/L		92	70 - 130	1	20
Bromomethane	4.00	3.76	*	ug/L		94	70 - 130	23	20
Carbon tetrachloride	4.00	3.65		ug/L		91	70 - 130	3	20
Chlorobenzene	4.00	3.77		ug/L		94	70 - 130	0	20
Chlorodibromomethane	4.00	3.76		ug/L		94	70 - 130	4	20
Chloroethane	4.00	3.64		ug/L		91	70 - 130	0	20
Chloroform	4.00	3.57		ug/L		89	70 - 130	0	20
Chloromethane	4.00	4.26		ug/L		106	70 - 130	3	20
cis-1,2-Dichloroethene	4.00	3.70		ug/L		93	70 - 130	0	20
cis-1,3-Dichloropropene	4.00	3.48		ug/L		87	70 - 130	1	20
Dibromomethane	4.00	3.64		ug/L		91	70 - 130	0	20
Dichlorobromomethane	4.00	3.54		ug/L		88	70 - 130	1	20
Dichlorodifluoromethane	4.00	4.40		ug/L		110	70 - 130	3	20
Ethylbenzene	4.00	3.88		ug/L		97	70 - 130	1	20
Hexachlorobutadiene	4.00	4.11		ug/L		103	70 - 130	1	20
Isopropylbenzene	4.00	4.00		ug/L		100	70 - 130	1	20
Methyl tert-butyl ether	4.00	3.93		ug/L		98	70 - 130	4	20
Methylene Chloride	4.00	3.59		ug/L		90	70 - 130	1	20

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-131130/7

Matrix: Water

Analysis Batch: 131130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	4.00	4.16		ug/L		104	70 - 130	2	20
n-Butylbenzene	4.00	4.12		ug/L		103	70 - 130	0	20
N-Propylbenzene	4.00	3.84		ug/L		96	70 - 130	1	20
sec-Butylbenzene	4.00	4.01		ug/L		100	70 - 130	2	20
Styrene	4.00	3.90		ug/L		98	70 - 130	2	20
tert-Butylbenzene	4.00	3.94		ug/L		99	70 - 130	2	20
Tetrachloroethene	4.00	3.86		ug/L		96	70 - 130	2	20
Toluene	4.00	3.75		ug/L		94	70 - 130	2	20
trans-1,2-Dichloroethene	4.00	3.74		ug/L		94	70 - 130	2	20
trans-1,3-Dichloropropene	4.00	3.50		ug/L		88	70 - 130	2	20
Trichloroethene	4.00	3.77		ug/L		94	70 - 130	1	20
Trichlorofluoromethane	4.00	4.19		ug/L		105	70 - 130	2	20
Vinyl chloride	4.00	4.33		ug/L		108	70 - 130	3	20
Xylenes, Total	12.0	11.8		ug/L		98	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichlorobenzene-d4	102		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-59097/1-A

Matrix: Water

Analysis Batch: 59143

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59097

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/29/13 19:47	07/31/13 00:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	77		70 - 130	07/29/13 19:47	07/31/13 00:52	1

Lab Sample ID: LCS 200-59097/2-A

Matrix: Water

Analysis Batch: 59143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59097

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	8.00	6.84		ug/L		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,4-Dioxane-d8 (Surr)	78		70 - 130

TestAmerica Buffalo

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

GC/MS VOA

Analysis Batch: 131130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42639-1	13 Eldia Way	Total/NA	Water	524.2	
480-42639-3	385 Meetinghouse Road	Total/NA	Water	524.2	
480-42639-5	40 Deepwood Drive	Total/NA	Water	524.2	
480-42639-7	4 Whidah Way	Total/NA	Water	524.2	
480-42639-9	45 Deepwood Drive	Total/NA	Water	524.2	
480-42639-11	150 Glacier Hills Road	Total/NA	Water	524.2	
480-42639-13	400 Meetinghouse Road	Total/NA	Water	524.2	
480-42639-15	Trip Blank	Total/NA	Water	524.2	
LCS 480-131130/6	Lab Control Sample	Total/NA	Water	524.2	
LCSD 480-131130/7	Lab Control Sample Dup	Total/NA	Water	524.2	
MB 480-131130/8	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 59097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42639-1	13 Eldia Way	Total/NA	Water	3535A	
480-42639-3	385 Meetinghouse Road	Total/NA	Water	3535A	
480-42639-5	40 Deepwood Drive	Total/NA	Water	3535A	
480-42639-7	4 Whidah Way	Total/NA	Water	3535A	
480-42639-9	45 Deepwood Drive	Total/NA	Water	3535A	
480-42639-11	150 Glacier Hills Road	Total/NA	Water	3535A	
480-42639-13	400 Meetinghouse Road	Total/NA	Water	3535A	
480-42639-15	Trip Blank	Total/NA	Water	3535A	
LCS 200-59097/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-59097/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 59143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42639-1	13 Eldia Way	Total/NA	Water	522 MOD	59097
480-42639-3	385 Meetinghouse Road	Total/NA	Water	522 MOD	59097
480-42639-5	40 Deepwood Drive	Total/NA	Water	522 MOD	59097
480-42639-7	4 Whidah Way	Total/NA	Water	522 MOD	59097
480-42639-9	45 Deepwood Drive	Total/NA	Water	522 MOD	59097
480-42639-11	150 Glacier Hills Road	Total/NA	Water	522 MOD	59097
480-42639-13	400 Meetinghouse Road	Total/NA	Water	522 MOD	59097
480-42639-15	Trip Blank	Total/NA	Water	522 MOD	59097
LCS 200-59097/2-A	Lab Control Sample	Total/NA	Water	522 MOD	59097
MB 200-59097/1-A	Method Blank	Total/NA	Water	522 MOD	59097

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 13 Eldia Way

Date Collected: 07/24/13 09:50

Date Received: 07/26/13 03:00

Lab Sample ID: 480-42639-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131130	07/29/13 15:01	CDC	TAL BUF
Total/NA	Prep	3535A			59097	07/29/13 19:47	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59143	07/31/13 01:14	RJH	TAL BUR

Client Sample ID: 385 Meetinghouse Road

Date Collected: 07/24/13 10:50

Date Received: 07/26/13 03:00

Lab Sample ID: 480-42639-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131130	07/29/13 15:53	CDC	TAL BUF
Total/NA	Prep	3535A			59097	07/29/13 19:47	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59143	07/31/13 01:36	RJH	TAL BUR

Client Sample ID: 40 Deepwood Drive

Date Collected: 07/24/13 11:45

Date Received: 07/26/13 03:00

Lab Sample ID: 480-42639-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131130	07/29/13 16:44	CDC	TAL BUF
Total/NA	Prep	3535A			59097	07/29/13 19:47	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59143	07/31/13 01:59	RJH	TAL BUR

Client Sample ID: 4 Whidah Way

Date Collected: 07/24/13 12:40

Date Received: 07/26/13 03:00

Lab Sample ID: 480-42639-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131130	07/29/13 17:35	CDC	TAL BUF
Total/NA	Prep	3535A			59097	07/29/13 19:47	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59143	07/31/13 02:22	RJH	TAL BUR

Client Sample ID: 45 Deepwood Drive

Date Collected: 07/24/13 13:25

Date Received: 07/26/13 03:00

Lab Sample ID: 480-42639-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131130	07/29/13 18:27	CDC	TAL BUF
Total/NA	Prep	3535A			59097	07/29/13 19:47	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59143	07/31/13 02:46	RJH	TAL BUR

TestAmerica Buffalo

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 150 Glacier Hills Road

Lab Sample ID: 480-42639-11

Date Collected: 07/24/13 14:30

Matrix: Water

Date Received: 07/26/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131130	07/29/13 19:18	CDC	TAL BUF
Total/NA	Prep	3535A			59097	07/29/13 19:47	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59143	07/31/13 03:09	RJH	TAL BUR

Client Sample ID: 400 Meetinghouse Road

Lab Sample ID: 480-42639-13

Date Collected: 07/24/13 15:25

Matrix: Water

Date Received: 07/26/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131130	07/29/13 20:09	CDC	TAL BUF
Total/NA	Prep	3535A			59097	07/29/13 19:47	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59143	07/31/13 03:32	RJH	TAL BUR

Client Sample ID: Trip Blank

Lab Sample ID: 480-42639-15

Date Collected: 07/23/13 08:30

Matrix: Water

Date Received: 07/26/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131130	07/29/13 21:00	CDC	TAL BUF
Total/NA	Prep	3535A			59097	07/29/13 19:47	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59143	07/31/13 03:55	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13 *
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-13 *
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13 *

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-42639-1	13 Eldia Way	Water	07/24/13 09:50	07/26/13 03:00
480-42639-3	385 Meetinghouse Road	Water	07/24/13 10:50	07/26/13 03:00
480-42639-5	40 Deepwood Drive	Water	07/24/13 11:45	07/26/13 03:00
480-42639-7	4 Whidah Way	Water	07/24/13 12:40	07/26/13 03:00
480-42639-9	45 Deepwood Drive	Water	07/24/13 13:25	07/26/13 03:00
480-42639-11	150 Glacier Hills Road	Water	07/24/13 14:30	07/26/13 03:00
480-42639-13	400 Meetinghouse Road	Water	07/24/13 15:25	07/26/13 03:00
480-42639-15	Trip Blank	Water	07/23/13 08:30	07/26/13 03:00

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: MA MCP

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: David Bennett		Site Contact:		Date:	
Bennett Environmental Associates, Inc.		Tel/Fax: 508-896-1706		Lab Contact:		Carrier:	
Address: 1573 Main St. / P.O. Box 1743		Calendar (C) or Work Days (W) _____ C		1,4-Dioxane via 522.1 Mod		COC No: 1 of 2 COCs	
City/State/Zip: Brewster, MA 02631		Analysis Turnaround Time		Composite = C / Grab = G		For Lab Use Only:	
Phone: 508-896-1706		☒ 2 weeks		Filtered Sample (Y/N)		Walk-in Client:	
FAX: 508-896-5109		☐ 1 week		Sample Date		Lab Sampling:	
Project Name: Eastham Landfill		☐ 2 days		Sample Time		Job / SDG No.: BEA11-10104	
Site: Town of Eastham		☐ 1 day		Sample Type		Sampler: JTW	
P O #: BEA09-10104				Sample Matrix		Sample Specific Notes:	

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Notes
13 Eldia Way	7/24/2013	9:50 am	G	W	5	
13 Eldia Way Duplicate	7/24/2013	9:50 am	G	W	4	
385 Meetinghouse Road	7/24/2013	10:50 am	G	W	5	
385 Meetinghouse Road Duplicate	7/24/2013	10:50 am	G	W	4	
40 Deepwood Drive	7/24/2013	11:45 am	G	W	5	
40 Deepwood Drive Duplicate	7/24/2013	11:45 am	G	W	4	
4 Whidah Way	7/24/2013	12:40 pm	G	W	5	
4 Whidah Way Duplicate	7/24/2013	12:40 pm	G	W	4	
45 Deepwood Drive	7/24/2013	1:25 pm	G	W	5	
45 Deepwood Drive Duplicate	7/24/2013	1:25 pm	G	W	4	
150 Glacier Hills Road	7/24/2013	2:30 pm	G	W	5	
150 Glacier Hills Road Duplicate	7/24/2013	2:30 pm	G	W	4	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

2.3 #1

Relinquished by: [Signature]	Company: [Signature]	Date/Time: 7/24/2013	Received by: [Signature]	Company: [Signature]	Date/Time: 7/25/2013
Relinquished by: [Signature]	Company: [Signature]	Date/Time: 7/25/2013	Received by: [Signature]	Company: [Signature]	Date/Time: 7/26/2013
Relinquished by: [Signature]	Company: [Signature]	Date/Time: 7/26/2013	Received by: [Signature]	Company: [Signature]	Date/Time: 7/26/2013

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: MA MCP

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Client Contact		Project Manager: David Bennett		Site Contact:		Date:		COC No:	
Bennett Environmental Associates, Inc.		Tel/Fax: 508-896-1706		Lab Contact:				2 of 2 COCs	
Address: 1573 Main St. / P.O. Box 1743		Analysis Turnaround Time							
City/State/Zip: Brewster, MA 02631		Calendar (C) or Work Days (W) C							
Phone: 508-896-1706		TAT if different from Below _____							
FAX: 508-896-5109		☒ 2 weeks							
Project Name: Eastham Landfill		☐ 1 week							
Site: Town of Eastham		☐ 2 days						Job / SDG No.: BEA11-10104	
PO #: BEA09-10104		☐ 1 day						Sampler: JTW	

[illegible]

Preservation Used: 1= Ice, 2= HCl; 3= H ₂ SO ₄ ; 4=HNO ₃ ; 5=NaOH; 6= Other _____															
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.															
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown															
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months															
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)															
1,2				1,2											

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com			
Relinquished by: 	Company: BEA	Date/Time: 7/24/13	Received by: 
			Date/Time: 7/25/13
Relinquished by: 	Company: BEA	Date/Time: 7/25/13	Received by: 
			Date/Time: 7/25/13
Relinquished by: 	Company: BEA	Date/Time: 7/25/13	Received by: 
			Date/Time: 7/25/13

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-42639-1

Login Number: 42639

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	False	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-42639-1

Login Number: 42639

List Source: TestAmerica Burlington

List Number: 1

List Creation: 07/26/13 12:03 PM

Creator: Poucher, Stephanie A

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6°C IR GUN ID 181. CF -0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-42740-1

Client Project/Site: Eastham Landfill IRA

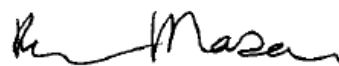
For:

Bennett Environmental Associates, Inc.

1573 Main St.

Brewster, Massachusetts 02631

Attn: David Bennett



Authorized for release by:

8/6/2013 4:58:50 PM

Becky Mason, Project Manager II

becky.mason@testamericainc.com

Designee for

Steve Hartmann, Lab Director

steve.hartmann@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
B	Compound was found in the blank and sample.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Job ID: 480-42740-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt

The samples were received on 7/27/2013 2:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.1° C and 2.6° C.

GC/MS VOA

Method 524.2: The laboratory control sample (LCS) for batch 131257 recovered outside control limits for the following analytes: Dichlorodifluoromethane and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 524.2: The continuing calibration verification (CCV) for Trichlorofluoromethane and Carbon Tetrachloride associated with batch 131327 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 524.2: The laboratory control sample (LCS) for batch 131327 recovered outside control limits for the following analytes: Dichlorodifluoromethane and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 524.2: The method blank for batch 131749 contained Acetone above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method 522 MOD: The surrogate recovery for the laboratory control sample associated with batch 59295 was outside recovery limits. All associated sample surrogates fell within acceptance criteria; therefore, the data have been reported.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 170 Candlewood Drive

Lab Sample ID: 480-42740-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.55	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	0.51		0.50	0.14	ug/L	1			524.2	Total/NA

Client Sample ID: 20 Chipman Street

Lab Sample ID: 480-42740-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.74	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	0.22	J	0.50	0.14	ug/L	1			524.2	Total/NA
1,4-Dioxane	0.041	J	0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample ID: 230 Glacier Hills Road

Lab Sample ID: 480-42740-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.68	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	0.74		0.50	0.14	ug/L	1			524.2	Total/NA

Client Sample ID: 310 Glacier Hills Road

Lab Sample ID: 480-42740-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.60	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	1.1		0.50	0.14	ug/L	1			524.2	Total/NA
Trihalomethanes, Total	1.1	J	2.0	1.0	ug/L	1			524.2	Total/NA

Client Sample ID: 25 Knowles Street (RES-36)

Lab Sample ID: 480-42740-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1-Dichloroethane	0.25	J	0.50	0.074	ug/L	1			524.2	Total/NA
Acetone	0.76	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	0.43	J	0.50	0.14	ug/L	1			524.2	Total/NA
Chloromethane	0.078	J	0.50	0.063	ug/L	1			524.2	Total/NA
cis-1,2-Dichloroethene	2.0		0.50	0.12	ug/L	1			524.2	Total/NA
Methyl tert-butyl ether	0.33	J	0.50	0.12	ug/L	1			524.2	Total/NA
Vinyl chloride	0.083	J	0.50	0.059	ug/L	1			524.2	Total/NA
1,4-Dioxane	2.8		0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-42740-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	5.7		2.5	0.54	ug/L	1			524.2	Total/NA
Naphthalene	0.23	J	0.50	0.060	ug/L	1			524.2	Total/NA
Toluene	0.10	J	0.50	0.10	ug/L	1			524.2	Total/NA

Client Sample ID: 55 Candlewood Drive

Lab Sample ID: 480-42740-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.1	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	0.29	J	0.50	0.14	ug/L	1			524.2	Total/NA

Client Sample ID: 75 Deerfiled Lane

Lab Sample ID: 480-42740-14

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 75 Deerfiled Lane (Continued)

Lab Sample ID: 480-42740-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.2		2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	1.1		0.50	0.14	ug/L	1		524.2	Total/NA
Trihalomethanes, Total	1.1	J	2.0	1.0	ug/L	1		524.2	Total/NA

Client Sample ID: 50 Alston Ave (RES-35)

Lab Sample ID: 480-42740-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.30	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	2.1	J	2.5	0.54	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.18	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 55 Deepwood Drive

Lab Sample ID: 480-42740-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.9		2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.19	J	0.50	0.14	ug/L	1		524.2	Total/NA
Chloromethane	0.11	J	0.50	0.063	ug/L	1		524.2	Total/NA

Client Sample ID: 11 Eldia Way (RES-24)

Lab Sample ID: 480-42740-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.19	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	1.3	J	2.5	0.54	ug/L	1		524.2	Total/NA
Benzene	0.16	J	0.50	0.13	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	0.84		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	1.0		0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	3.0		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 350 Meetinghouse Road

Lab Sample ID: 480-42740-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.2	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.51		0.50	0.14	ug/L	1		524.2	Total/NA
Dichlorodifluoromethane	0.36	J *	0.50	0.070	ug/L	1		524.2	Total/NA
1,4-Dioxane	1.3		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: Atlantic Oaks 'H' Well

Lab Sample ID: 480-42740-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.1		0.50	0.14	ug/L	1		524.2	Total/NA
Trihalomethanes, Total	1.1	J	2.0	1.0	ug/L	1		524.2	Total/NA

Client Sample ID: Atlantic Oaks North Well

Lab Sample ID: 480-42740-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.2	J B	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.74		0.50	0.14	ug/L	1		524.2	Total/NA
Chloromethane	0.091	J	0.50	0.063	ug/L	1		524.2	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-42740-28

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: Trip Blank (Continued)

Lab Sample ID: 480-42740-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.6		2.5	0.54	ug/L	1		524.2	Total/NA
Naphthalene	0.25	J	0.50	0.060	ug/L	1		524.2	Total/NA
Toluene	0.10	J	0.50	0.10	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 170 Candlewood Drive

Lab Sample ID: 480-42740-1

Date Collected: 07/25/13 09:25

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 02:40	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 02:40	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 02:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 02:40	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 02:40	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 02:40	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 02:40	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 02:40	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 02:40	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 02:40	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 02:40	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 02:40	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 02:40	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 02:40	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 02:40	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 02:40	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 02:40	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 02:40	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 02:40	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 02:40	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 02:40	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 02:40	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 02:40	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 02:40	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 02:40	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 02:40	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 02:40	1
Acetone	0.55	J	2.5	0.54	ug/L			07/30/13 02:40	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 02:40	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 02:40	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 02:40	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 02:40	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 02:40	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 02:40	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 02:40	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 02:40	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 02:40	1
Chloroform	0.51		0.50	0.14	ug/L			07/30/13 02:40	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 02:40	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 02:40	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 02:40	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 02:40	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 02:40	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			07/30/13 02:40	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 02:40	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 02:40	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 02:40	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 02:40	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 02:40	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 170 Candlewood Drive

Lab Sample ID: 480-42740-1

Date Collected: 07/25/13 09:25

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 02:40	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 02:40	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 02:40	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 02:40	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 02:40	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 02:40	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 02:40	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 02:40	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 02:40	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 02:40	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 02:40	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 02:40	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 02:40	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 02:40	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 02:40	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 02:40	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 02:40	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	108		80 - 120		07/30/13 02:40	1
4-Bromofluorobenzene (Surr)	99		80 - 120		07/30/13 02:40	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	72		70 - 130	07/31/13 17:41	08/01/13 13:50	1

Client Sample ID: 20 Chipman Street

Lab Sample ID: 480-42740-3

Date Collected: 07/25/13 10:20

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 03:31	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 03:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 03:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 03:31	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 03:31	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 03:31	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 03:31	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 03:31	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 03:31	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 03:31	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 03:31	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 03:31	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 03:31	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 03:31	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 20 Chipman Street

Lab Sample ID: 480-42740-3

Date Collected: 07/25/13 10:20

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 03:31	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 03:31	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 03:31	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 03:31	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 03:31	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 03:31	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 03:31	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 03:31	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 03:31	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 03:31	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 03:31	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 03:31	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 03:31	1
Acetone	0.74	J	2.5	0.54	ug/L			07/30/13 03:31	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 03:31	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 03:31	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 03:31	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 03:31	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 03:31	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 03:31	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 03:31	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 03:31	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 03:31	1
Chloroform	0.22	J	0.50	0.14	ug/L			07/30/13 03:31	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 03:31	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 03:31	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 03:31	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 03:31	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 03:31	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			07/30/13 03:31	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 03:31	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 03:31	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 03:31	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 03:31	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 03:31	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 03:31	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 03:31	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 03:31	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 03:31	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 03:31	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 03:31	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 03:31	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 03:31	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 03:31	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 03:31	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 03:31	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 03:31	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 03:31	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 03:31	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 20 Chipman Street

Lab Sample ID: 480-42740-3

Date Collected: 07/25/13 10:20

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 03:31	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 03:31	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 03:31	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 03:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		07/30/13 03:31	1
4-Bromofluorobenzene (Surr)	100		80 - 120		07/30/13 03:31	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.041	J	0.20	0.040	ug/L		07/31/13 17:41	08/01/13 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	81		70 - 130	07/31/13 17:41	08/01/13 15:10	1

Client Sample ID: 230 Glacier Hills Road

Lab Sample ID: 480-42740-5

Date Collected: 07/25/13 11:00

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 04:22	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 04:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 04:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 04:22	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 04:22	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 04:22	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 04:22	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 04:22	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 04:22	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 04:22	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 04:22	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 04:22	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 04:22	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 04:22	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 04:22	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 04:22	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 04:22	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 04:22	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 04:22	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 04:22	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 04:22	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 04:22	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 04:22	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 04:22	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 04:22	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 04:22	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 04:22	1
Acetone	0.68	J	2.5	0.54	ug/L			07/30/13 04:22	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 230 Glacier Hills Road

Lab Sample ID: 480-42740-5

Date Collected: 07/25/13 11:00

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/30/13 04:22	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 04:22	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 04:22	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 04:22	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 04:22	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 04:22	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 04:22	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 04:22	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 04:22	1
Chloroform	0.74		0.50	0.14	ug/L			07/30/13 04:22	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 04:22	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 04:22	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 04:22	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 04:22	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 04:22	1
Dichlorodifluoromethane	ND *		0.50	0.070	ug/L			07/30/13 04:22	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 04:22	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 04:22	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 04:22	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 04:22	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 04:22	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 04:22	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 04:22	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 04:22	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 04:22	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 04:22	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 04:22	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 04:22	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 04:22	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 04:22	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 04:22	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 04:22	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 04:22	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 04:22	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 04:22	1
Trichlorofluoromethane	ND *		0.50	0.044	ug/L			07/30/13 04:22	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 04:22	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 04:22	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 04:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		07/30/13 04:22	1
4-Bromofluorobenzene (Surr)	101		80 - 120		07/30/13 04:22	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	81		70 - 130	07/31/13 17:41	08/01/13 15:32	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 310 Glacier Hills Road

Lab Sample ID: 480-42740-7

Date Collected: 07/25/13 11:45

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 05:14	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 05:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 05:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 05:14	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 05:14	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 05:14	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 05:14	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 05:14	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 05:14	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 05:14	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 05:14	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 05:14	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 05:14	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 05:14	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 05:14	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 05:14	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 05:14	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 05:14	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 05:14	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 05:14	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 05:14	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 05:14	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 05:14	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 05:14	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 05:14	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 05:14	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 05:14	1
Acetone	0.60	J	2.5	0.54	ug/L			07/30/13 05:14	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 05:14	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 05:14	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 05:14	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 05:14	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 05:14	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 05:14	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 05:14	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 05:14	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 05:14	1
Chloroform	1.1		0.50	0.14	ug/L			07/30/13 05:14	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 05:14	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 05:14	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 05:14	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 05:14	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 05:14	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			07/30/13 05:14	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 05:14	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 05:14	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 05:14	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 05:14	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 05:14	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 310 Glacier Hills Road

Lab Sample ID: 480-42740-7

Date Collected: 07/25/13 11:45

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 05:14	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 05:14	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 05:14	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 05:14	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 05:14	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 05:14	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 05:14	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 05:14	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 05:14	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 05:14	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 05:14	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 05:14	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 05:14	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 05:14	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 05:14	1
Trihalomethanes, Total	1.1	J	2.0	1.0	ug/L			07/30/13 05:14	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 05:14	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 05:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		07/30/13 05:14	1
4-Bromofluorobenzene (Surr)	99		80 - 120		07/30/13 05:14	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	74		70 - 130	07/31/13 17:41	08/01/13 15:56	1

Client Sample ID: 25 Knowles Street (RES-36)

Lab Sample ID: 480-42740-9

Date Collected: 07/25/13 12:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 06:04	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 06:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 06:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 06:04	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 06:04	1
1,1-Dichloroethane	0.25	J	0.50	0.074	ug/L			07/30/13 06:04	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 06:04	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 06:04	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 06:04	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 06:04	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 06:04	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 06:04	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 06:04	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 06:04	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 25 Knowles Street (RES-36)

Lab Sample ID: 480-42740-9

Date Collected: 07/25/13 12:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 06:04	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 06:04	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 06:04	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 06:04	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 06:04	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 06:04	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 06:04	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 06:04	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 06:04	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 06:04	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 06:04	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 06:04	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 06:04	1
Acetone	0.76	J	2.5	0.54	ug/L			07/30/13 06:04	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 06:04	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 06:04	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 06:04	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 06:04	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 06:04	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 06:04	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 06:04	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 06:04	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 06:04	1
Chloroform	0.43	J	0.50	0.14	ug/L			07/30/13 06:04	1
Chloromethane	0.078	J	0.50	0.063	ug/L			07/30/13 06:04	1
cis-1,2-Dichloroethene	2.0		0.50	0.12	ug/L			07/30/13 06:04	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 06:04	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 06:04	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 06:04	1
Dichlorodifluoromethane	ND *		0.50	0.070	ug/L			07/30/13 06:04	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 06:04	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 06:04	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 06:04	1
Methyl tert-butyl ether	0.33	J	0.50	0.12	ug/L			07/30/13 06:04	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 06:04	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 06:04	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 06:04	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 06:04	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 06:04	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 06:04	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 06:04	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 06:04	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 06:04	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 06:04	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 06:04	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 06:04	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 06:04	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 06:04	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 06:04	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 25 Knowles Street (RES-36)

Lab Sample ID: 480-42740-9

Date Collected: 07/25/13 12:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 06:04	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 06:04	1
Vinyl chloride	0.083	J	0.50	0.059	ug/L			07/30/13 06:04	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 06:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	108		80 - 120					07/30/13 06:04	1
4-Bromofluorobenzene (Surr)	100		80 - 120					07/30/13 06:04	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.8		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	79		70 - 130				07/31/13 17:41	08/01/13 16:18	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-42740-11

Date Collected: 07/25/13 08:15

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 06:55	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 06:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 06:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 06:55	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 06:55	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 06:55	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 06:55	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 06:55	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 06:55	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 06:55	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 06:55	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 06:55	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 06:55	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 06:55	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 06:55	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 06:55	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 06:55	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 06:55	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 06:55	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 06:55	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 06:55	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 06:55	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 06:55	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 06:55	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 06:55	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 06:55	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 06:55	1
Acetone	5.7		2.5	0.54	ug/L			07/30/13 06:55	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-42740-11

Date Collected: 07/25/13 08:15

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/30/13 06:55	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 06:55	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 06:55	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 06:55	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 06:55	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 06:55	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 06:55	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 06:55	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 06:55	1
Chloroform	ND		0.50	0.14	ug/L			07/30/13 06:55	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 06:55	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 06:55	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 06:55	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 06:55	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 06:55	1
Dichlorodifluoromethane	ND *		0.50	0.070	ug/L			07/30/13 06:55	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 06:55	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 06:55	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 06:55	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 06:55	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 06:55	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 06:55	1
Naphthalene	0.23 J		0.50	0.060	ug/L			07/30/13 06:55	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 06:55	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 06:55	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 06:55	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 06:55	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 06:55	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 06:55	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 06:55	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 06:55	1
Toluene	0.10 J		0.50	0.10	ug/L			07/30/13 06:55	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 06:55	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 06:55	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 06:55	1
Trichlorofluoromethane	ND *		0.50	0.044	ug/L			07/30/13 06:55	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 06:55	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 06:55	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 06:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		07/30/13 06:55	1
4-Bromofluorobenzene (Surr)	100		80 - 120		07/30/13 06:55	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/02/13 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	71		70 - 130	07/31/13 17:41	08/02/13 13:18	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 55 Candlewood Drive

Lab Sample ID: 480-42740-12

Date Collected: 07/25/13 09:45

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 07:20	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 07:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 07:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 07:20	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 07:20	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 07:20	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 07:20	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 07:20	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 07:20	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 07:20	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 07:20	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 07:20	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 07:20	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 07:20	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 07:20	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 07:20	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 07:20	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 07:20	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 07:20	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 07:20	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 07:20	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 07:20	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 07:20	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 07:20	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 07:20	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 07:20	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 07:20	1
Acetone	1.1	J	2.5	0.54	ug/L			07/30/13 07:20	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 07:20	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 07:20	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 07:20	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 07:20	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 07:20	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 07:20	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 07:20	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 07:20	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 07:20	1
Chloroform	0.29	J	0.50	0.14	ug/L			07/30/13 07:20	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 07:20	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 07:20	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 07:20	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 07:20	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 07:20	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			07/30/13 07:20	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 07:20	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 07:20	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 07:20	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 07:20	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 07:20	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 55 Candlewood Drive

Lab Sample ID: 480-42740-12

Date Collected: 07/25/13 09:45

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 07:20	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 07:20	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 07:20	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 07:20	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 07:20	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 07:20	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 07:20	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 07:20	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 07:20	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 07:20	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 07:20	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 07:20	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 07:20	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 07:20	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 07:20	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 07:20	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 07:20	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 07:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		07/30/13 07:20	1
4-Bromofluorobenzene (Surr)	100		80 - 120		07/30/13 07:20	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	71		70 - 130	07/31/13 17:41	08/01/13 17:23	1

Client Sample ID: 75 Deerfiled Lane

Lab Sample ID: 480-42740-14

Date Collected: 07/25/13 10:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 08:10	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 08:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 08:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 08:10	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 08:10	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 08:10	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 08:10	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 08:10	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 08:10	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 08:10	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 08:10	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 08:10	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 08:10	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 08:10	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 75 Deerfiled Lane

Lab Sample ID: 480-42740-14

Date Collected: 07/25/13 10:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 08:10	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 08:10	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 08:10	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 08:10	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 08:10	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 08:10	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 08:10	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 08:10	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 08:10	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 08:10	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 08:10	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 08:10	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 08:10	1
Acetone	4.2		2.5	0.54	ug/L			07/30/13 08:10	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 08:10	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 08:10	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 08:10	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 08:10	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 08:10	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 08:10	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 08:10	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 08:10	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 08:10	1
Chloroform	1.1		0.50	0.14	ug/L			07/30/13 08:10	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 08:10	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 08:10	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 08:10	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 08:10	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 08:10	1
Dichlorodifluoromethane	ND *		0.50	0.070	ug/L			07/30/13 08:10	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 08:10	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 08:10	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 08:10	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 08:10	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 08:10	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 08:10	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 08:10	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 08:10	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 08:10	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 08:10	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 08:10	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 08:10	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 08:10	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 08:10	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 08:10	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 08:10	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 08:10	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 08:10	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 08:10	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 75 Deerfiled Lane

Lab Sample ID: 480-42740-14

Date Collected: 07/25/13 10:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 08:10	1
Trihalomethanes, Total	1.1	J	2.0	1.0	ug/L			07/30/13 08:10	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 08:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 08:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	110		80 - 120					07/30/13 08:10	1
4-Bromofluorobenzene (Surr)	99		80 - 120					07/30/13 08:10	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 17:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	79		70 - 130				07/31/13 17:41	08/01/13 17:45	1

Client Sample ID: 50 Alston Ave (RES-35)

Lab Sample ID: 480-42740-16

Date Collected: 07/25/13 11:30

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 11:36	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 11:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 11:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 11:36	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 11:36	1
1,1-Dichloroethane	0.30	J	0.50	0.074	ug/L			07/30/13 11:36	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 11:36	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 11:36	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 11:36	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 11:36	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 11:36	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 11:36	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 11:36	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 11:36	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 11:36	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 11:36	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 11:36	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 11:36	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 11:36	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 11:36	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 11:36	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 11:36	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 11:36	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 11:36	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 11:36	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 11:36	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 11:36	1
Acetone	2.1	J	2.5	0.54	ug/L			07/30/13 11:36	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 50 Alston Ave (RES-35)

Lab Sample ID: 480-42740-16

Date Collected: 07/25/13 11:30

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/30/13 11:36	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 11:36	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 11:36	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 11:36	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 11:36	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 11:36	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 11:36	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 11:36	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 11:36	1
Chloroform	ND		0.50	0.14	ug/L			07/30/13 11:36	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 11:36	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 11:36	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 11:36	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 11:36	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 11:36	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			07/30/13 11:36	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 11:36	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 11:36	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 11:36	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 11:36	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 11:36	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 11:36	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 11:36	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 11:36	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 11:36	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 11:36	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 11:36	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 11:36	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 11:36	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 11:36	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 11:36	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 11:36	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 11:36	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 11:36	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 11:36	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 11:36	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 11:36	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 11:36	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 11:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		07/30/13 11:36	1
4-Bromofluorobenzene (Surr)	98		80 - 120		07/30/13 11:36	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.18	J	0.20	0.040	ug/L		07/31/13 17:41	08/01/13 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	83		70 - 130	07/31/13 17:41	08/01/13 18:07	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 55 Deepwood Drive

Lab Sample ID: 480-42740-18

Date Collected: 07/25/13 12:10

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 12:27	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 12:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 12:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 12:27	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 12:27	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 12:27	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 12:27	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 12:27	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 12:27	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 12:27	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 12:27	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 12:27	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 12:27	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 12:27	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 12:27	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 12:27	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 12:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 12:27	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 12:27	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 12:27	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 12:27	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 12:27	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 12:27	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 12:27	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 12:27	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 12:27	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 12:27	1
Acetone	2.9		2.5	0.54	ug/L			07/30/13 12:27	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 12:27	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 12:27	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 12:27	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 12:27	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 12:27	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 12:27	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 12:27	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 12:27	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 12:27	1
Chloroform	0.19	J	0.50	0.14	ug/L			07/30/13 12:27	1
Chloromethane	0.11	J	0.50	0.063	ug/L			07/30/13 12:27	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 12:27	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 12:27	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 12:27	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 12:27	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			07/30/13 12:27	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 12:27	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 12:27	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 12:27	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 12:27	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 12:27	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 55 Deepwood Drive

Lab Sample ID: 480-42740-18

Date Collected: 07/25/13 12:10

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 12:27	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 12:27	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 12:27	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 12:27	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 12:27	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 12:27	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 12:27	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 12:27	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 12:27	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 12:27	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 12:27	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 12:27	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 12:27	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 12:27	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 12:27	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 12:27	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 12:27	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		07/30/13 12:27	1
4-Bromofluorobenzene (Surr)	99		80 - 120		07/30/13 12:27	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	81		70 - 130	07/31/13 17:41	08/01/13 18:30	1

Client Sample ID: 11 Eldia Way (RES-24)

Lab Sample ID: 480-42740-20

Date Collected: 07/25/13 13:05

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 13:18	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 13:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 13:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 13:18	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 13:18	1
1,1-Dichloroethane	0.19	J	0.50	0.074	ug/L			07/30/13 13:18	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 13:18	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 13:18	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 13:18	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 13:18	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 13:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 13:18	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 13:18	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 13:18	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 11 Eldia Way (RES-24)

Lab Sample ID: 480-42740-20

Date Collected: 07/25/13 13:05

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 13:18	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 13:18	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 13:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 13:18	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 13:18	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 13:18	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 13:18	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 13:18	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 13:18	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 13:18	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 13:18	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 13:18	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 13:18	1
Acetone	1.3	J	2.5	0.54	ug/L			07/30/13 13:18	1
Benzene	0.16	J	0.50	0.13	ug/L			07/30/13 13:18	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 13:18	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 13:18	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 13:18	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 13:18	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 13:18	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 13:18	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 13:18	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 13:18	1
Chloroform	ND		0.50	0.14	ug/L			07/30/13 13:18	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 13:18	1
cis-1,2-Dichloroethene	0.84		0.50	0.12	ug/L			07/30/13 13:18	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 13:18	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 13:18	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 13:18	1
Dichlorodifluoromethane	ND *		0.50	0.070	ug/L			07/30/13 13:18	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 13:18	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 13:18	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 13:18	1
Methyl tert-butyl ether	1.0		0.50	0.12	ug/L			07/30/13 13:18	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 13:18	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 13:18	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 13:18	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 13:18	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 13:18	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 13:18	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 13:18	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 13:18	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 13:18	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 13:18	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 13:18	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 13:18	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 13:18	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 13:18	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 13:18	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 11 Eldia Way (RES-24)

Lab Sample ID: 480-42740-20

Date Collected: 07/25/13 13:05

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 13:18	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 13:18	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 13:18	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 13:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	108		80 - 120					07/30/13 13:18	1
4-Bromofluorobenzene (Surr)	98		80 - 120					07/30/13 13:18	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.0		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	70		70 - 130				07/31/13 17:41	08/01/13 18:53	1

Client Sample ID: 350 Meetinghouse Road

Lab Sample ID: 480-42740-22

Date Collected: 07/25/13 14:05

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 14:09	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 14:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 14:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 14:09	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 14:09	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 14:09	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 14:09	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 14:09	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 14:09	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 14:09	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 14:09	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 14:09	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 14:09	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 14:09	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 14:09	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 14:09	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 14:09	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 14:09	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 14:09	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 14:09	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 14:09	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 14:09	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 14:09	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 14:09	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 14:09	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 14:09	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 14:09	1
Acetone	2.2 J		2.5	0.54	ug/L			07/30/13 14:09	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 350 Meetinghouse Road

Lab Sample ID: 480-42740-22

Date Collected: 07/25/13 14:05

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/30/13 14:09	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 14:09	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 14:09	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 14:09	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 14:09	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 14:09	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 14:09	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 14:09	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 14:09	1
Chloroform	0.51		0.50	0.14	ug/L			07/30/13 14:09	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 14:09	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 14:09	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 14:09	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 14:09	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 14:09	1
Dichlorodifluoromethane	0.36	J *	0.50	0.070	ug/L			07/30/13 14:09	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 14:09	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 14:09	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 14:09	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 14:09	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 14:09	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 14:09	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 14:09	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 14:09	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 14:09	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 14:09	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 14:09	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 14:09	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 14:09	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 14:09	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 14:09	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 14:09	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 14:09	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 14:09	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 14:09	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 14:09	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 14:09	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 14:09	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		07/30/13 14:09	1
4-Bromofluorobenzene (Surr)	104		80 - 120		07/30/13 14:09	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.3		0.20	0.040	ug/L		08/02/13 18:31	08/06/13 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	88		70 - 130	08/02/13 18:31	08/06/13 14:45	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: Atlantic Oaks 'H' Well

Lab Sample ID: 480-42740-24

Date Collected: 07/25/13 14:55

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 15:01	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 15:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 15:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 15:01	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 15:01	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 15:01	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 15:01	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 15:01	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 15:01	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 15:01	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 15:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 15:01	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 15:01	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 15:01	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 15:01	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 15:01	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 15:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 15:01	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 15:01	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 15:01	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 15:01	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 15:01	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 15:01	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 15:01	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 15:01	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 15:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 15:01	1
Acetone	ND		2.5	0.54	ug/L			07/30/13 15:01	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 15:01	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 15:01	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 15:01	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 15:01	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 15:01	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 15:01	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 15:01	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 15:01	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 15:01	1
Chloroform	1.1		0.50	0.14	ug/L			07/30/13 15:01	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 15:01	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 15:01	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 15:01	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 15:01	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 15:01	1
Dichlorodifluoromethane	ND *		0.50	0.070	ug/L			07/30/13 15:01	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 15:01	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 15:01	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 15:01	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 15:01	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 15:01	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: Atlantic Oaks 'H' Well

Lab Sample ID: 480-42740-24

Date Collected: 07/25/13 14:55

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 15:01	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 15:01	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 15:01	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 15:01	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 15:01	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 15:01	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 15:01	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 15:01	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 15:01	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 15:01	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 15:01	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 15:01	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 15:01	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 15:01	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 15:01	1
Trihalomethanes, Total	1.1	J	2.0	1.0	ug/L			07/30/13 15:01	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 15:01	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		07/30/13 15:01	1
4-Bromofluorobenzene (Surr)	104		80 - 120		07/30/13 15:01	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	76		70 - 130	07/31/13 17:41	08/01/13 19:39	1

Client Sample ID: Atlantic Oaks North Well

Lab Sample ID: 480-42740-26

Date Collected: 07/25/13 15:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/01/13 08:52	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/01/13 08:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/01/13 08:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/01/13 08:52	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/01/13 08:52	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/01/13 08:52	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/01/13 08:52	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/01/13 08:52	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/01/13 08:52	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/01/13 08:52	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/01/13 08:52	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/01/13 08:52	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/01/13 08:52	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/01/13 08:52	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: Atlantic Oaks North Well

Lab Sample ID: 480-42740-26

Date Collected: 07/25/13 15:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/01/13 08:52	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/01/13 08:52	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/01/13 08:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/01/13 08:52	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/01/13 08:52	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/01/13 08:52	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/01/13 08:52	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/01/13 08:52	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/01/13 08:52	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/01/13 08:52	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/01/13 08:52	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/01/13 08:52	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/01/13 08:52	1
Acetone	2.2	J B	2.5	0.54	ug/L			08/01/13 08:52	1
Benzene	ND		0.50	0.13	ug/L			08/01/13 08:52	1
Bromobenzene	ND		0.50	0.13	ug/L			08/01/13 08:52	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/01/13 08:52	1
Bromoform	ND		0.50	0.13	ug/L			08/01/13 08:52	1
Bromomethane	ND		0.50	0.051	ug/L			08/01/13 08:52	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/01/13 08:52	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/01/13 08:52	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/01/13 08:52	1
Chloroethane	ND		0.50	0.070	ug/L			08/01/13 08:52	1
Chloroform	0.74		0.50	0.14	ug/L			08/01/13 08:52	1
Chloromethane	0.091	J	0.50	0.063	ug/L			08/01/13 08:52	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/01/13 08:52	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/01/13 08:52	1
Dibromomethane	ND		0.50	0.17	ug/L			08/01/13 08:52	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/01/13 08:52	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/01/13 08:52	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/01/13 08:52	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/01/13 08:52	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/01/13 08:52	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/01/13 08:52	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/01/13 08:52	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/01/13 08:52	1
Naphthalene	ND		0.50	0.060	ug/L			08/01/13 08:52	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/01/13 08:52	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/01/13 08:52	1
o-Xylene	ND		0.50	0.044	ug/L			08/01/13 08:52	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/01/13 08:52	1
Styrene	ND		0.50	0.044	ug/L			08/01/13 08:52	1
t-Butanol	ND		10	2.5	ug/L			08/01/13 08:52	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/01/13 08:52	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/01/13 08:52	1
Toluene	ND		0.50	0.10	ug/L			08/01/13 08:52	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/01/13 08:52	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/01/13 08:52	1
Trichloroethene	ND		0.50	0.060	ug/L			08/01/13 08:52	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: Atlantic Oaks North Well

Lab Sample ID: 480-42740-26

Date Collected: 07/25/13 15:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/01/13 08:52	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/01/13 08:52	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/01/13 08:52	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/01/13 08:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	99		80 - 120					08/01/13 08:52	1
4-Bromofluorobenzene (Surr)	99		80 - 120					08/01/13 08:52	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 20:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	72		70 - 130				07/31/13 17:41	08/01/13 20:02	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-42740-28

Date Collected: 07/25/13 08:15

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 16:45	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 16:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 16:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 16:45	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 16:45	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 16:45	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 16:45	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 16:45	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 16:45	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 16:45	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 16:45	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 16:45	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 16:45	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 16:45	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 16:45	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 16:45	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 16:45	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 16:45	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 16:45	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 16:45	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 16:45	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 16:45	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 16:45	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 16:45	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 16:45	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 16:45	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 16:45	1
Acetone	7.6		2.5	0.54	ug/L			07/30/13 16:45	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-42740-28

Date Collected: 07/25/13 08:15

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/30/13 16:45	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 16:45	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 16:45	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 16:45	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 16:45	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 16:45	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 16:45	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 16:45	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 16:45	1
Chloroform	ND		0.50	0.14	ug/L			07/30/13 16:45	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 16:45	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 16:45	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 16:45	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 16:45	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 16:45	1
Dichlorodifluoromethane	ND *		0.50	0.070	ug/L			07/30/13 16:45	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 16:45	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 16:45	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 16:45	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 16:45	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 16:45	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 16:45	1
Naphthalene	0.25 J		0.50	0.060	ug/L			07/30/13 16:45	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 16:45	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 16:45	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 16:45	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 16:45	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 16:45	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 16:45	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 16:45	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 16:45	1
Toluene	0.10 J		0.50	0.10	ug/L			07/30/13 16:45	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 16:45	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 16:45	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 16:45	1
Trichlorofluoromethane	ND *		0.50	0.044	ug/L			07/30/13 16:45	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 16:45	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 16:45	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		07/30/13 16:45	1
4-Bromofluorobenzene (Surr)	105		80 - 120		07/30/13 16:45	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	75		70 - 130	07/31/13 17:41	08/01/13 20:25	1

TestAmerica Buffalo

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)
480-42740-1	170 Candlewood Drive	108	99
480-42740-3	20 Chipman Street	104	100
480-42740-5	230 Glacier Hills Road	107	101
480-42740-7	310 Glacier Hills Road	107	99
480-42740-9	25 Knowles Street (RES-36)	108	100
480-42740-11	Trip Blank	107	100
480-42740-12	55 Candlewood Drive	105	100
480-42740-14	75 Deerfiled Lane	110	99
480-42740-16	50 Alston Ave (RES-35)	107	98
480-42740-18	55 Deepwood Drive	107	99
480-42740-20	11 Eldia Way (RES-24)	108	98
480-42740-22	350 Meetinghouse Road	107	104
480-42740-24	Atlantic Oaks 'H' Well	107	104
480-42740-26	Atlantic Oaks North Well	99	99
480-42740-28	Trip Blank	105	105
LCS 480-131257/4	Lab Control Sample	101	105
LCS 480-131327/4	Lab Control Sample	102	109
LCS 480-131749/4	Lab Control Sample	101	100
MB 480-131257/5	Method Blank	103	101
MB 480-131327/5	Method Blank	105	101
MB 480-131749/5	Method Blank	102	101
Surrogate Legend			
12DCB = 1,2-Dichlorobenzene-d4			
BFB = 4-Bromofluorobenzene (Surr)			

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	14DD8 (70-130)	
480-42740-1	170 Candlewood Drive	72	
480-42740-3	20 Chipman Street	81	
480-42740-5	230 Glacier Hills Road	81	
480-42740-7	310 Glacier Hills Road	74	
480-42740-9	25 Knowles Street (RES-36)	79	
480-42740-11	Trip Blank	71	
480-42740-12	55 Candlewood Drive	71	
480-42740-14	75 Deerfiled Lane	79	
480-42740-16	50 Alston Ave (RES-35)	83	
480-42740-18	55 Deepwood Drive	81	
480-42740-20	11 Eldia Way (RES-24)	70	
480-42740-22	350 Meetinghouse Road	88	
480-42740-24	Atlantic Oaks 'H' Well	76	
480-42740-26	Atlantic Oaks North Well	72	
480-42740-28	Trip Blank	75	
LCS 200-59212/2-A	Lab Control Sample	72	
LCS 200-59295/2-A	Lab Control Sample	67 X	

TestAmerica Buffalo

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	14DD8 (70-130)
MB 200-59212/1-A	Method Blank	71
MB 200-59295/1-A	Method Blank	77
Surrogate Legend		
14DD8 = 1,4-Dioxane-d8 (Surr)		

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-131257/5

Matrix: Water

Analysis Batch: 131257

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 23:53	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 23:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 23:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 23:53	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 23:53	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 23:53	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 23:53	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 23:53	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 23:53	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 23:53	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 23:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 23:53	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 23:53	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 23:53	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 23:53	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 23:53	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 23:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 23:53	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 23:53	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 23:53	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 23:53	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 23:53	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 23:53	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 23:53	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 23:53	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 23:53	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 23:53	1
Acetone	ND		2.5	0.54	ug/L			07/29/13 23:53	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 23:53	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 23:53	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 23:53	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 23:53	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 23:53	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 23:53	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 23:53	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 23:53	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 23:53	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 23:53	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 23:53	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 23:53	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 23:53	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 23:53	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 23:53	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 23:53	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 23:53	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 23:53	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 23:53	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 23:53	1

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-131257/5

Matrix: Water

Analysis Batch: 131257

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 23:53	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 23:53	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 23:53	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 23:53	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 23:53	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 23:53	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 23:53	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 23:53	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 23:53	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 23:53	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 23:53	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 23:53	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 23:53	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 23:53	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 23:53	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 23:53	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 23:53	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 23:53	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 23:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		07/29/13 23:53	1
4-Bromofluorobenzene (Surr)	101		80 - 120		07/29/13 23:53	1

Lab Sample ID: LCS 480-131257/4

Matrix: Water

Analysis Batch: 131257

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.43		ug/L		111	70 - 130
1,1,1-Trichloroethane	4.00	4.46		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.85		ug/L		96	70 - 130
1,1,2-Trichloroethane	4.00	4.15		ug/L		104	70 - 130
1,1-Dichloroethane	4.00	4.24		ug/L		106	70 - 130
1,1-Dichloroethene	4.00	4.08		ug/L		102	70 - 130
1,1-Dichloropropene	4.00	4.82		ug/L		121	70 - 130
1,2,3-Trichlorobenzene	4.00	4.17		ug/L		104	70 - 130
1,2,3-Trichloropropane	4.00	4.20		ug/L		105	70 - 130
1,2,4-Trichlorobenzene	4.00	4.18		ug/L		105	70 - 130
1,2,4-Trimethylbenzene	4.00	4.44		ug/L		111	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	4.20		ug/L		105	70 - 130
1,2-Dibromoethane	4.00	4.23		ug/L		106	70 - 130
1,2-Dichlorobenzene	4.00	4.11		ug/L		103	70 - 130
1,2-Dichloroethane	4.00	4.57		ug/L		114	70 - 130
1,2-Dichloropropane	4.00	4.14		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	4.00	4.40		ug/L		110	70 - 130
1,3-Dichlorobenzene	4.00	4.14		ug/L		104	70 - 130
1,3-Dichloropropane	4.00	4.35		ug/L		109	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-131257/4

Matrix: Water

Analysis Batch: 131257

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	4.06		ug/L		102	70 - 130
2,2-Dichloropropane	4.00	4.19		ug/L		105	70 - 130
2-Butanone (MEK)	20.0	19.8		ug/L		99	70 - 130
2-Chlorotoluene	4.00	4.24		ug/L		106	70 - 130
4-Chlorotoluene	4.00	4.22		ug/L		105	70 - 130
4-Isopropyltoluene	4.00	4.50		ug/L		112	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	21.0		ug/L		105	70 - 130
Acetone	20.0	17.3		ug/L		87	70 - 130
Benzene	4.00	4.25		ug/L		106	70 - 130
Bromobenzene	4.00	4.09		ug/L		102	70 - 130
Bromochloromethane	4.00	4.20		ug/L		105	70 - 130
Bromoform	4.00	4.18		ug/L		104	70 - 130
Bromomethane	4.00	3.31		ug/L		83	70 - 130
Carbon tetrachloride	4.00	4.67		ug/L		117	70 - 130
Chlorobenzene	4.00	4.20		ug/L		105	70 - 130
Chlorodibromomethane	4.00	4.43		ug/L		111	70 - 130
Chloroethane	4.00	3.56		ug/L		89	70 - 130
Chloroform	4.00	4.27		ug/L		107	70 - 130
Chloromethane	4.00	5.05		ug/L		126	70 - 130
cis-1,2-Dichloroethene	4.00	4.30		ug/L		107	70 - 130
cis-1,3-Dichloropropene	4.00	4.02		ug/L		101	70 - 130
Dibromomethane	4.00	4.22		ug/L		105	70 - 130
Dichlorobromomethane	4.00	4.42		ug/L		110	70 - 130
Dichlorodifluoromethane	4.00	5.54	*	ug/L		139	70 - 130
Ethylbenzene	4.00	4.46		ug/L		111	70 - 130
Hexachlorobutadiene	4.00	4.59		ug/L		115	70 - 130
Isopropylbenzene	4.00	4.65		ug/L		116	70 - 130
Methyl tert-butyl ether	4.00	3.84		ug/L		96	70 - 130
Methylene Chloride	4.00	3.80		ug/L		95	70 - 130
Naphthalene	4.00	4.17		ug/L		104	70 - 130
n-Butylbenzene	4.00	4.59		ug/L		115	70 - 130
N-Propylbenzene	4.00	4.30		ug/L		108	70 - 130
sec-Butylbenzene	4.00	4.57		ug/L		114	70 - 130
Styrene	4.00	4.41		ug/L		110	70 - 130
tert-Butylbenzene	4.00	4.45		ug/L		111	70 - 130
Tetrachloroethene	4.00	4.43		ug/L		111	70 - 130
Toluene	4.00	4.28		ug/L		107	70 - 130
trans-1,2-Dichloroethene	4.00	4.10		ug/L		102	70 - 130
trans-1,3-Dichloropropene	4.00	4.08		ug/L		102	70 - 130
Trichloroethene	4.00	4.22		ug/L		105	70 - 130
Trichlorofluoromethane	4.00	5.23	*	ug/L		131	70 - 130
Vinyl chloride	4.00	4.87		ug/L		122	70 - 130
Xylenes, Total	12.0	13.8		ug/L		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	101		80 - 120
4-Bromofluorobenzene (Surr)	105		80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-131327/5

Matrix: Water

Analysis Batch: 131327

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 10:41	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 10:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 10:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 10:41	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 10:41	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 10:41	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 10:41	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 10:41	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 10:41	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 10:41	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 10:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 10:41	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 10:41	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 10:41	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 10:41	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 10:41	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 10:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 10:41	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 10:41	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 10:41	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 10:41	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 10:41	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 10:41	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 10:41	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 10:41	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 10:41	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 10:41	1
Acetone	ND		2.5	0.54	ug/L			07/30/13 10:41	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 10:41	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 10:41	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 10:41	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 10:41	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 10:41	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 10:41	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 10:41	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 10:41	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 10:41	1
Chloroform	ND		0.50	0.14	ug/L			07/30/13 10:41	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 10:41	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 10:41	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 10:41	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 10:41	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 10:41	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/30/13 10:41	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 10:41	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 10:41	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 10:41	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 10:41	1

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-131327/5

Matrix: Water

Analysis Batch: 131327

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 10:41	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 10:41	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 10:41	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 10:41	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 10:41	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 10:41	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 10:41	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 10:41	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 10:41	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 10:41	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 10:41	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 10:41	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 10:41	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 10:41	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 10:41	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/30/13 10:41	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 10:41	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 10:41	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 10:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		07/30/13 10:41	1
4-Bromofluorobenzene (Surr)	101		80 - 120		07/30/13 10:41	1

Lab Sample ID: LCS 480-131327/4

Matrix: Water

Analysis Batch: 131327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.40		ug/L		110	70 - 130
1,1,1-Trichloroethane	4.00	4.64		ug/L		116	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.60		ug/L		90	70 - 130
1,1,2-Trichloroethane	4.00	3.88		ug/L		97	70 - 130
1,1-Dichloroethane	4.00	4.05		ug/L		101	70 - 130
1,1-Dichloroethene	4.00	3.40		ug/L		85	70 - 130
1,1-Dichloropropene	4.00	4.33		ug/L		108	70 - 130
1,2,3-Trichlorobenzene	4.00	3.86		ug/L		97	70 - 130
1,2,3-Trichloropropane	4.00	4.37		ug/L		109	70 - 130
1,2,4-Trichlorobenzene	4.00	3.72		ug/L		93	70 - 130
1,2,4-Trimethylbenzene	4.00	4.09		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	4.13		ug/L		103	70 - 130
1,2-Dibromoethane	4.00	3.97		ug/L		99	70 - 130
1,2-Dichlorobenzene	4.00	3.93		ug/L		98	70 - 130
1,2-Dichloroethane	4.00	4.64		ug/L		116	70 - 130
1,2-Dichloropropane	4.00	3.82		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	4.00	4.03		ug/L		101	70 - 130
1,3-Dichlorobenzene	4.00	3.86		ug/L		96	70 - 130
1,3-Dichloropropane	4.00	4.08		ug/L		102	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-131327/4

Matrix: Water

Analysis Batch: 131327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.84		ug/L		96	70 - 130
2,2-Dichloropropane	4.00	4.15		ug/L		104	70 - 130
2-Butanone (MEK)	20.0	19.1		ug/L		95	70 - 130
2-Chlorotoluene	4.00	3.92		ug/L		98	70 - 130
4-Chlorotoluene	4.00	3.93		ug/L		98	70 - 130
4-Isopropyltoluene	4.00	3.99		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.4		ug/L		97	70 - 130
Acetone	20.0	20.0		ug/L		100	70 - 130
Benzene	4.00	3.80		ug/L		95	70 - 130
Bromobenzene	4.00	3.78		ug/L		95	70 - 130
Bromochloromethane	4.00	4.00		ug/L		100	70 - 130
Bromoform	4.00	3.99		ug/L		100	70 - 130
Bromomethane	4.00	4.09		ug/L		102	70 - 130
Carbon tetrachloride	4.00	4.80		ug/L		120	70 - 130
Chlorobenzene	4.00	3.90		ug/L		98	70 - 130
Chlorodibromomethane	4.00	4.26		ug/L		106	70 - 130
Chloroethane	4.00	4.03		ug/L		101	70 - 130
Chloroform	4.00	4.30		ug/L		107	70 - 130
Chloromethane	4.00	4.44		ug/L		111	70 - 130
cis-1,2-Dichloroethene	4.00	4.09		ug/L		102	70 - 130
cis-1,3-Dichloropropene	4.00	3.76		ug/L		94	70 - 130
Dibromomethane	4.00	4.11		ug/L		103	70 - 130
Dichlorobromomethane	4.00	4.27		ug/L		107	70 - 130
Dichlorodifluoromethane	4.00	5.64	*	ug/L		141	70 - 130
Ethylbenzene	4.00	4.12		ug/L		103	70 - 130
Hexachlorobutadiene	4.00	4.16		ug/L		104	70 - 130
Isopropylbenzene	4.00	4.13		ug/L		103	70 - 130
Methyl tert-butyl ether	4.00	3.68		ug/L		92	70 - 130
Methylene Chloride	4.00	3.60		ug/L		90	70 - 130
Naphthalene	4.00	3.59		ug/L		90	70 - 130
n-Butylbenzene	4.00	4.09		ug/L		102	70 - 130
N-Propylbenzene	4.00	3.93		ug/L		98	70 - 130
sec-Butylbenzene	4.00	3.97		ug/L		99	70 - 130
Styrene	4.00	4.11		ug/L		103	70 - 130
tert-Butylbenzene	4.00	3.94		ug/L		99	70 - 130
Tetrachloroethene	4.00	3.88		ug/L		97	70 - 130
Toluene	4.00	3.81		ug/L		95	70 - 130
trans-1,2-Dichloroethene	4.00	3.78		ug/L		95	70 - 130
trans-1,3-Dichloropropene	4.00	3.96		ug/L		99	70 - 130
Trichloroethene	4.00	3.77		ug/L		94	70 - 130
Trichlorofluoromethane	4.00	5.69	*	ug/L		142	70 - 130
Vinyl chloride	4.00	4.82		ug/L		120	70 - 130
Xylenes, Total	12.0	12.8		ug/L		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	102		80 - 120
4-Bromofluorobenzene (Surr)	109		80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-131749/5

Matrix: Water

Analysis Batch: 131749

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/01/13 03:08	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/01/13 03:08	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/01/13 03:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/01/13 03:08	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/01/13 03:08	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/01/13 03:08	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/01/13 03:08	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/01/13 03:08	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/01/13 03:08	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/01/13 03:08	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/01/13 03:08	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/01/13 03:08	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/01/13 03:08	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/01/13 03:08	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/01/13 03:08	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/01/13 03:08	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/01/13 03:08	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/01/13 03:08	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/01/13 03:08	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/01/13 03:08	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/01/13 03:08	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/01/13 03:08	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/01/13 03:08	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/01/13 03:08	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/01/13 03:08	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/01/13 03:08	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/01/13 03:08	1
Acetone	0.816	J	2.5	0.54	ug/L			08/01/13 03:08	1
Benzene	ND		0.50	0.13	ug/L			08/01/13 03:08	1
Bromobenzene	ND		0.50	0.13	ug/L			08/01/13 03:08	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/01/13 03:08	1
Bromoform	ND		0.50	0.13	ug/L			08/01/13 03:08	1
Bromomethane	ND		0.50	0.051	ug/L			08/01/13 03:08	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/01/13 03:08	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/01/13 03:08	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/01/13 03:08	1
Chloroethane	ND		0.50	0.070	ug/L			08/01/13 03:08	1
Chloroform	ND		0.50	0.14	ug/L			08/01/13 03:08	1
Chloromethane	ND		0.50	0.063	ug/L			08/01/13 03:08	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/01/13 03:08	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/01/13 03:08	1
Dibromomethane	ND		0.50	0.17	ug/L			08/01/13 03:08	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/01/13 03:08	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/01/13 03:08	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/01/13 03:08	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/01/13 03:08	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/01/13 03:08	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/01/13 03:08	1

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-131749/5

Matrix: Water

Analysis Batch: 131749

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			08/01/13 03:08	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/01/13 03:08	1
Naphthalene	ND		0.50	0.060	ug/L			08/01/13 03:08	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/01/13 03:08	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/01/13 03:08	1
o-Xylene	ND		0.50	0.044	ug/L			08/01/13 03:08	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/01/13 03:08	1
Styrene	ND		0.50	0.044	ug/L			08/01/13 03:08	1
t-Butanol	ND		10	2.5	ug/L			08/01/13 03:08	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/01/13 03:08	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/01/13 03:08	1
Toluene	ND		0.50	0.10	ug/L			08/01/13 03:08	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/01/13 03:08	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/01/13 03:08	1
Trichloroethene	ND		0.50	0.060	ug/L			08/01/13 03:08	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/01/13 03:08	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/01/13 03:08	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/01/13 03:08	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/01/13 03:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/01/13 03:08	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/01/13 03:08	1

Lab Sample ID: LCS 480-131749/4

Matrix: Water

Analysis Batch: 131749

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.76		ug/L		94	70 - 130
1,1,1,1-Trichloroethane	4.00	3.68		ug/L		92	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.58		ug/L		89	70 - 130
1,1,2-Trichloroethane	4.00	3.61		ug/L		90	70 - 130
1,1-Dichloroethane	4.00	3.67		ug/L		92	70 - 130
1,1-Dichloroethene	4.00	3.32		ug/L		83	70 - 130
1,1-Dichloropropene	4.00	3.96		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	4.00	3.85		ug/L		96	70 - 130
1,2,3-Trichloropropane	4.00	3.55		ug/L		89	70 - 130
1,2,4-Trichlorobenzene	4.00	3.85		ug/L		96	70 - 130
1,2,4-Trimethylbenzene	4.00	3.78		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.78		ug/L		94	70 - 130
1,2-Dibromoethane	4.00	3.70		ug/L		93	70 - 130
1,2-Dichlorobenzene	4.00	3.76		ug/L		94	70 - 130
1,2-Dichloroethane	4.00	3.67		ug/L		92	70 - 130
1,2-Dichloropropane	4.00	3.62		ug/L		91	70 - 130
1,3,5-Trimethylbenzene	4.00	3.73		ug/L		93	70 - 130
1,3-Dichlorobenzene	4.00	3.72		ug/L		93	70 - 130
1,3-Dichloropropane	4.00	3.72		ug/L		93	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-131749/4

Matrix: Water

Analysis Batch: 131749

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.69		ug/L		92	70 - 130
2,2-Dichloropropane	4.00	3.54		ug/L		88	70 - 130
2-Butanone (MEK)	20.0	18.7		ug/L		94	70 - 130
2-Chlorotoluene	4.00	3.70		ug/L		93	70 - 130
4-Chlorotoluene	4.00	3.71		ug/L		93	70 - 130
4-Isopropyltoluene	4.00	3.76		ug/L		94	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.3		ug/L		96	70 - 130
Acetone	20.0	17.4		ug/L		87	70 - 130
Benzene	4.00	3.71		ug/L		93	70 - 130
Bromobenzene	4.00	3.74		ug/L		93	70 - 130
Bromochloromethane	4.00	3.84		ug/L		96	70 - 130
Bromoform	4.00	3.71		ug/L		93	70 - 130
Bromomethane	4.00	4.50		ug/L		113	70 - 130
Carbon tetrachloride	4.00	3.56		ug/L		89	70 - 130
Chlorobenzene	4.00	3.72		ug/L		93	70 - 130
Chlorodibromomethane	4.00	3.69		ug/L		92	70 - 130
Chloroethane	4.00	4.02		ug/L		100	70 - 130
Chloroform	4.00	3.66		ug/L		92	70 - 130
Chloromethane	4.00	4.09		ug/L		102	70 - 130
cis-1,2-Dichloroethene	4.00	3.71		ug/L		93	70 - 130
cis-1,3-Dichloropropene	4.00	3.58		ug/L		89	70 - 130
Dibromomethane	4.00	3.71		ug/L		93	70 - 130
Dichlorobromomethane	4.00	3.64		ug/L		91	70 - 130
Dichlorodifluoromethane	4.00	4.68		ug/L		117	70 - 130
Ethylbenzene	4.00	3.72		ug/L		93	70 - 130
Hexachlorobutadiene	4.00	3.82		ug/L		96	70 - 130
Isopropylbenzene	4.00	3.81		ug/L		95	70 - 130
Methyl tert-butyl ether	4.00	3.73		ug/L		93	70 - 130
Methylene Chloride	4.00	3.46		ug/L		87	70 - 130
Naphthalene	4.00	3.94		ug/L		98	70 - 130
n-Butylbenzene	4.00	3.83		ug/L		96	70 - 130
N-Propylbenzene	4.00	3.78		ug/L		94	70 - 130
sec-Butylbenzene	4.00	3.76		ug/L		94	70 - 130
Styrene	4.00	3.79		ug/L		95	70 - 130
tert-Butylbenzene	4.00	3.79		ug/L		95	70 - 130
Tetrachloroethene	4.00	3.65		ug/L		91	70 - 130
Toluene	4.00	3.79		ug/L		95	70 - 130
trans-1,2-Dichloroethene	4.00	3.60		ug/L		90	70 - 130
trans-1,3-Dichloropropene	4.00	3.54		ug/L		89	70 - 130
Trichloroethene	4.00	3.67		ug/L		92	70 - 130
Trichlorofluoromethane	4.00	4.33		ug/L		108	70 - 130
Vinyl chloride	4.00	4.06		ug/L		101	70 - 130
Xylenes, Total	12.0	11.3		ug/L		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	101		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-59212/1-A

Matrix: Water

Analysis Batch: 59229

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59212

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 12:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	71		70 - 130				07/31/13 17:41	08/01/13 12:19	1

Lab Sample ID: LCS 200-59212/2-A

Matrix: Water

Analysis Batch: 59229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.200	0.165	J	ug/L		82	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	72		70 - 130				

Lab Sample ID: MB 200-59295/1-A

Matrix: Water

Analysis Batch: 59370

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59295

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/02/13 18:31	08/06/13 13:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	77		70 - 130				08/02/13 18:31	08/06/13 13:49	1

Lab Sample ID: LCS 200-59295/2-A

Matrix: Water

Analysis Batch: 59370

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59295

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.00	1.61		ug/L		81	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	67	X	70 - 130				

TestAmerica Buffalo

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

GC/MS VOA

Analysis Batch: 131257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42740-1	170 Candlewood Drive	Total/NA	Water	524.2	
480-42740-3	20 Chipman Street	Total/NA	Water	524.2	
480-42740-5	230 Glacier Hills Road	Total/NA	Water	524.2	
480-42740-7	310 Glacier Hills Road	Total/NA	Water	524.2	
480-42740-9	25 Knowles Street (RES-36)	Total/NA	Water	524.2	
480-42740-11	Trip Blank	Total/NA	Water	524.2	
480-42740-12	55 Candlewood Drive	Total/NA	Water	524.2	
480-42740-14	75 Deerfiled Lane	Total/NA	Water	524.2	
LCS 480-131257/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-131257/5	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 131327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42740-16	50 Alston Ave (RES-35)	Total/NA	Water	524.2	
480-42740-18	55 Deepwood Drive	Total/NA	Water	524.2	
480-42740-20	11 Eldia Way (RES-24)	Total/NA	Water	524.2	
480-42740-22	350 Meetinghouse Road	Total/NA	Water	524.2	
480-42740-24	Atlantic Oaks 'H' Well	Total/NA	Water	524.2	
480-42740-28	Trip Blank	Total/NA	Water	524.2	
LCS 480-131327/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-131327/5	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 131749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42740-26	Atlantic Oaks North Well	Total/NA	Water	524.2	
LCS 480-131749/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-131749/5	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 59212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42740-1	170 Candlewood Drive	Total/NA	Water	3535A	
480-42740-3	20 Chipman Street	Total/NA	Water	3535A	
480-42740-5	230 Glacier Hills Road	Total/NA	Water	3535A	
480-42740-7	310 Glacier Hills Road	Total/NA	Water	3535A	
480-42740-9	25 Knowles Street (RES-36)	Total/NA	Water	3535A	
480-42740-11	Trip Blank	Total/NA	Water	3535A	
480-42740-12	55 Candlewood Drive	Total/NA	Water	3535A	
480-42740-14	75 Deerfiled Lane	Total/NA	Water	3535A	
480-42740-16	50 Alston Ave (RES-35)	Total/NA	Water	3535A	
480-42740-18	55 Deepwood Drive	Total/NA	Water	3535A	
480-42740-20	11 Eldia Way (RES-24)	Total/NA	Water	3535A	
480-42740-24	Atlantic Oaks 'H' Well	Total/NA	Water	3535A	
480-42740-26	Atlantic Oaks North Well	Total/NA	Water	3535A	
480-42740-28	Trip Blank	Total/NA	Water	3535A	
LCS 200-59212/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-59212/1-A	Method Blank	Total/NA	Water	3535A	

TestAmerica Buffalo

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

GC/MS Semi VOA (Continued)

Analysis Batch: 59229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42740-1	170 Candlewood Drive	Total/NA	Water	522 MOD	59212
480-42740-3	20 Chipman Street	Total/NA	Water	522 MOD	59212
480-42740-5	230 Glacier Hills Road	Total/NA	Water	522 MOD	59212
480-42740-7	310 Glacier Hills Road	Total/NA	Water	522 MOD	59212
480-42740-9	25 Knowles Street (RES-36)	Total/NA	Water	522 MOD	59212
480-42740-12	55 Candlewood Drive	Total/NA	Water	522 MOD	59212
480-42740-14	75 Deerfield Lane	Total/NA	Water	522 MOD	59212
480-42740-16	50 Alston Ave (RES-35)	Total/NA	Water	522 MOD	59212
480-42740-18	55 Deepwood Drive	Total/NA	Water	522 MOD	59212
480-42740-20	11 Eldia Way (RES-24)	Total/NA	Water	522 MOD	59212
480-42740-24	Atlantic Oaks 'H' Well	Total/NA	Water	522 MOD	59212
480-42740-26	Atlantic Oaks North Well	Total/NA	Water	522 MOD	59212
480-42740-28	Trip Blank	Total/NA	Water	522 MOD	59212
LCS 200-59212/2-A	Lab Control Sample	Total/NA	Water	522 MOD	59212
MB 200-59212/1-A	Method Blank	Total/NA	Water	522 MOD	59212

Analysis Batch: 59276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42740-11	Trip Blank	Total/NA	Water	522 MOD	59212

Prep Batch: 59295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42740-22	350 Meetinghouse Road	Total/NA	Water	3535A	
LCS 200-59295/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-59295/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 59370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42740-22	350 Meetinghouse Road	Total/NA	Water	522 MOD	59295
LCS 200-59295/2-A	Lab Control Sample	Total/NA	Water	522 MOD	59295
MB 200-59295/1-A	Method Blank	Total/NA	Water	522 MOD	59295

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 170 Candlewood Drive

Date Collected: 07/25/13 09:25

Date Received: 07/27/13 02:30

Lab Sample ID: 480-42740-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131257	07/30/13 02:40	TRB	TAL BUF
Total/NA	Prep	3535A			59212	07/31/13 17:41	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59229	08/01/13 13:50	RJH	TAL BUR

Client Sample ID: 20 Chipman Street

Date Collected: 07/25/13 10:20

Date Received: 07/27/13 02:30

Lab Sample ID: 480-42740-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131257	07/30/13 03:31	TRB	TAL BUF
Total/NA	Prep	3535A			59212	07/31/13 17:41	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59229	08/01/13 15:10	RJH	TAL BUR

Client Sample ID: 230 Glacier Hills Road

Date Collected: 07/25/13 11:00

Date Received: 07/27/13 02:30

Lab Sample ID: 480-42740-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131257	07/30/13 04:22	TRB	TAL BUF
Total/NA	Prep	3535A			59212	07/31/13 17:41	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59229	08/01/13 15:32	RJH	TAL BUR

Client Sample ID: 310 Glacier Hills Road

Date Collected: 07/25/13 11:45

Date Received: 07/27/13 02:30

Lab Sample ID: 480-42740-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131257	07/30/13 05:14	TRB	TAL BUF
Total/NA	Prep	3535A			59212	07/31/13 17:41	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59229	08/01/13 15:56	RJH	TAL BUR

Client Sample ID: 25 Knowles Street (RES-36)

Date Collected: 07/25/13 12:35

Date Received: 07/27/13 02:30

Lab Sample ID: 480-42740-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131257	07/30/13 06:04	TRB	TAL BUF
Total/NA	Prep	3535A			59212	07/31/13 17:41	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59229	08/01/13 16:18	RJH	TAL BUR

TestAmerica Buffalo

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-42740-11

Date Collected: 07/25/13 08:15

Matrix: Water

Date Received: 07/27/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131257	07/30/13 06:55	TRB	TAL BUF
Total/NA	Analysis	522 MOD		1	59276	08/02/13 13:18	RJH	TAL BUR

Client Sample ID: 55 Candlewood Drive

Lab Sample ID: 480-42740-12

Date Collected: 07/25/13 09:45

Matrix: Water

Date Received: 07/27/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131257	07/30/13 07:20	TRB	TAL BUF
Total/NA	Prep	3535A			59212	07/31/13 17:41	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59229	08/01/13 17:23	RJH	TAL BUR

Client Sample ID: 75 Deerfiled Lane

Lab Sample ID: 480-42740-14

Date Collected: 07/25/13 10:35

Matrix: Water

Date Received: 07/27/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131257	07/30/13 08:10	TRB	TAL BUF
Total/NA	Prep	3535A			59212	07/31/13 17:41	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59229	08/01/13 17:45	RJH	TAL BUR

Client Sample ID: 50 Alston Ave (RES-35)

Lab Sample ID: 480-42740-16

Date Collected: 07/25/13 11:30

Matrix: Water

Date Received: 07/27/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131327	07/30/13 11:36	CDC	TAL BUF
Total/NA	Prep	3535A			59212	07/31/13 17:41	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59229	08/01/13 18:07	RJH	TAL BUR

Client Sample ID: 55 Deepwood Drive

Lab Sample ID: 480-42740-18

Date Collected: 07/25/13 12:10

Matrix: Water

Date Received: 07/27/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131327	07/30/13 12:27	CDC	TAL BUF
Total/NA	Prep	3535A			59212	07/31/13 17:41	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59229	08/01/13 18:30	RJH	TAL BUR

TestAmerica Buffalo

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 11 Eldia Way (RES-24)

Lab Sample ID: 480-42740-20

Date Collected: 07/25/13 13:05

Matrix: Water

Date Received: 07/27/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131327	07/30/13 13:18	CDC	TAL BUF
Total/NA	Prep	3535A			59212	07/31/13 17:41	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59229	08/01/13 18:53	RJH	TAL BUR

Client Sample ID: 350 Meetinghouse Road

Lab Sample ID: 480-42740-22

Date Collected: 07/25/13 14:05

Matrix: Water

Date Received: 07/27/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131327	07/30/13 14:09	CDC	TAL BUF
Total/NA	Prep	3535A			59295	08/02/13 18:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/06/13 14:45	RJH	TAL BUR

Client Sample ID: Atlantic Oaks 'H' Well

Lab Sample ID: 480-42740-24

Date Collected: 07/25/13 14:55

Matrix: Water

Date Received: 07/27/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131327	07/30/13 15:01	CDC	TAL BUF
Total/NA	Prep	3535A			59212	07/31/13 17:41	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59229	08/01/13 19:39	RJH	TAL BUR

Client Sample ID: Atlantic Oaks North Well

Lab Sample ID: 480-42740-26

Date Collected: 07/25/13 15:35

Matrix: Water

Date Received: 07/27/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131749	08/01/13 08:52	TRB	TAL BUF
Total/NA	Prep	3535A			59212	07/31/13 17:41	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59229	08/01/13 20:02	RJH	TAL BUR

Client Sample ID: Trip Blank

Lab Sample ID: 480-42740-28

Date Collected: 07/25/13 08:15

Matrix: Water

Date Received: 07/27/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131327	07/30/13 16:45	CDC	TAL BUF
Total/NA	Prep	3535A			59212	07/31/13 17:41	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59229	08/01/13 20:25	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TestAmerica Buffalo

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13 *
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13 *

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-42740-1	170 Candlewood Drive	Water	07/25/13 09:25	07/27/13 02:30
480-42740-3	20 Chipman Street	Water	07/25/13 10:20	07/27/13 02:30
480-42740-5	230 Glacier Hills Road	Water	07/25/13 11:00	07/27/13 02:30
480-42740-7	310 Glacier Hills Road	Water	07/25/13 11:45	07/27/13 02:30
480-42740-9	25 Knowles Street (RES-36)	Water	07/25/13 12:35	07/27/13 02:30
480-42740-11	Trip Blank	Water	07/25/13 08:15	07/27/13 02:30
480-42740-12	55 Candlewood Drive	Water	07/25/13 09:45	07/27/13 02:30
480-42740-14	75 Deerfield Lane	Water	07/25/13 10:35	07/27/13 02:30
480-42740-16	50 Alston Ave (RES-35)	Water	07/25/13 11:30	07/27/13 02:30
480-42740-18	55 Deepwood Drive	Water	07/25/13 12:10	07/27/13 02:30
480-42740-20	11 Eldia Way (RES-24)	Water	07/25/13 13:05	07/27/13 02:30
480-42740-22	350 Meetinghouse Road	Water	07/25/13 14:05	07/27/13 02:30
480-42740-24	Atlantic Oaks 'H' Well	Water	07/25/13 14:55	07/27/13 02:30
480-42740-26	Atlantic Oaks North Well	Water	07/25/13 15:35	07/27/13 02:30
480-42740-28	Trip Blank	Water	07/25/13 08:15	07/27/13 02:30

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: MA MCP

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: David Bennett		Site Contact:		Date:		COC No:	
Bennett Environmental Associates, Inc.		Tel/Fax: 508-896-1706		Lab Contact:		Carrier:		1 of 3 COCs	
Address: 1573 Main St. / P.O. Box 1743		Analysis Turnaround Time		Calendar (C) or Work Days (W) C		For Lab Use Only:			
City/State/Zip: Brewster, MA 02631		TAT if different from Below				Walk-in Client:			
Phone: 508-896-1706		☒ 2 weeks				Lab Sampling:			
FAX: 508-896-5109		☐ 1 week				Job / SDG No.: BEA11-10104			
Project Name: Eastham Landfill		☐ 2 days				Sampler: LKM (BCDHE)			
Site: Town of Eastham		☐ 1 day				Sample Specific Notes:			
P O #: BEA09-10104									
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y/N)	Composite = C / Grab = G	1,4-Dioxane via 524.2	1,4-Dioxane via 522.1 Mod
170 Candlewood Drive	7/25/2013	9:25 am	G	W	5	N	G	3	2
170 Candlewood Drive Duplicate	7/25/2013	9:25 am	G	W	4	N	G	3	1
20 Chipman Street	7/25/2013	10:20 am	G	W	5	N	G	3	2
20 Chipman Street Duplicate	7/25/2013	10:20 am	G	W	4	N	G	3	1
230 Glacier Hills Road	7/25/2013	11:00 am	G	W	5	N	G	3	2
230 Glacier Hills Road Duplicate	7/25/2013	11:00 am	G	W	4	N	G	3	1
310 Glacier Hills Road	7/25/2013	11:45 am	G	W	5	N	G	3	2
310 Glacier Hills Road Duplicate	7/25/2013	11:45 am	G	W	4	N	G	3	1
25 Knowles Street (RES-36)	7/25/2013	12:35 pm	G	W	5	N	G	3	2
25 Knowles Street (RES-36) Duplicate	7/25/2013	12:35 pm	G	W	4	N	G	3	1
Trip Blank	7/25/2013	8:15 am	G	W	4	N	G	3	1
						480-42740 Chain of Custody			
						1,2,1,2			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
☐ Non-Hazardous ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown									
Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com									
Relinquished by: Lynn Perry		Company: BCDHE		Date/Time: 7/25/13 1:00pm		Received by: [Signature]		Company: BEA	
Relinquished by: [Signature]		Company: BEA		Date/Time: 7/25/13 4:30pm		Received by: [Signature]		Company: BEA	
Relinquished by: [Signature]		Company: BEA		Date/Time: 7/26/13 10:15		Received by: [Signature]		Company: TH	

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707
Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: MA MCP

Client Contact
Bennett Environmental Associates, Inc.
Address: 1573 Main St. / P.O. Box 1743
City/State/Zip: Brewster, MA 02631
Phone: 508-896-1706
FAX: 508-896-5109
Project Name: Eastham Landfill
Site: Town of Eastham
P O #: BEA09-10104

Project Manager: David Bennett
Tel/Fax: 508-896-1706
Site Contact:
Lab Contact:
Date:
Carrier:

Analysis Turnaround Time
Calendar (C) or Work Days (W) C
TAT if different from Below
☒ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

Job / SDG No.: BEA11-10104
Sampler: JTW/JDB (BEA)

Sample Specific Notes:

Sample Date Sample Time Sample Type Matrix # of Cont.

7/25/2013 9:45 am G W 5

7/25/2013 9:45 am G W 4

7/25/2013 10:35 am G W 5

7/25/2013 10:35 am G W 4

7/25/2013 11:30 am G W 5

7/25/2013 11:30 am G W 4

7/25/2013 12:10 pm G W 5

7/25/2013 12:10 pm G W 4

7/25/2013 1:05 pm G W 5

7/25/2013 1:05 pm G W 4

7/25/2013 2:05 pm G W 5

7/25/2013 2:05 pm G W 4

7/25/2013 2:05 pm G W 4

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7/25/2013 2:05 pm G W 4

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other
Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

Relinquished by: [Signature] Date/Time: 7/25/13 4:24 pm Company: BEA

Relinquished by: [Signature] Date/Time: 7/26/13 10:05 Company: [Signature]

Relinquished by: [Signature] Date/Time: 7/27/13 02:31 Company: [Signature]

Received by: [Signature] Date/Time: 7/26/13 10:15 Company: TA

Received by: [Signature] Date/Time: 7/27/13 02:31 Company: [Signature]

Received by: [Signature] Date/Time: 7/27/13 02:31 Company: [Signature]

Received by: [Signature] Date/Time: 7/27/13 02:31 Company: [Signature]

Received by: [Signature] Date/Time: 7/27/13 02:31 Company: [Signature]

Received by: [Signature] Date/Time: 7/27/13 02:31 Company: [Signature]

Received by: [Signature] Date/Time: 7/27/13 02:31 Company: [Signature]

Received by: [Signature] Date/Time: 7/27/13 02:31 Company: [Signature]

Received by: [Signature] Date/Time: 7/27/13 02:31 Company: [Signature]

Received by: [Signature] Date/Time: 7/27/13 02:31 Company: [Signature]

Received by: [Signature] Date/Time: 7/27/13 02:31 Company: [Signature]

Received by: [Signature] Date/Time: 7/27/13 02:31 Company: [Signature]

Received by: [Signature] Date/Time: 7/27/13 02:31 Company: [Signature]

Received by: [Signature] Date/Time: 7/27/13 02:31 Company: [Signature]

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: **MA MCP**

TestAmerica Laboratories, Inc.

[illegible]

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-42740-1

Login Number: 42740

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	False	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-42740-1

Login Number: 42740

List Number: 1

Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington

List Creation: 07/31/13 11:56 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	957383, 384
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2°C, 2.4°C IR GUN ID 181. CF -0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received extra samples not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-42740-2

Client Project/Site: Eastham Landfill IRA

For:

Bennett Environmental Associates, Inc.

1573 Main St.

Brewster, Massachusetts 02631

Attn: David Bennett



Authorized for release by:

8/15/2013 3:02:50 PM

Steve Hartmann, Lab Director

steve.hartmann@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-2

Job ID: 480-42740-2

Laboratory: TestAmerica Buffalo

Narrative

Receipt

The samples were received on 7/27/2013 at 2:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.1° C and 2.6° C.

This is a stand alone report for Sample 350 Meetinghouse Road duplicate (480-42740-23) that was activated for analysis on 8/6/13. This analysis was originally on hold per client request.

GC/MS VOA (524)

Method(s) 524.2: The continuing calibration verification (CCV) for Trichlorofluoromethane and Carbon Tetrachloride associated with batch 131327 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 524.2: The laboratory control sample (LCS) for batch 131327 recovered outside control limits for the following analytes: Dichlorodifluoromethane and Trichlorofluoromethane. These analytes were biased high in the LCS and were below the reporting limit in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA (522MOD)

No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-2

Client Sample ID: 350 Meetinghouse Road Duplicate

Lab Sample ID: 480-42740-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.55		0.50	0.14	ug/L	1		524.2	Total/NA
Dichlorodifluoromethane	0.37	J *	0.50	0.070	ug/L	1		524.2	Total/NA
1,4-Dioxane	1.2		0.20	0.040	ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-2

Client Sample ID: 350 Meetinghouse Road Duplicate

Lab Sample ID: 480-42740-23

Date Collected: 07/25/13 14:05

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 14:35	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 14:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 14:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 14:35	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 14:35	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 14:35	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 14:35	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 14:35	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 14:35	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 14:35	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 14:35	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 14:35	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 14:35	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 14:35	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 14:35	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 14:35	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 14:35	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 14:35	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 14:35	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 14:35	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 14:35	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 14:35	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 14:35	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 14:35	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 14:35	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 14:35	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 14:35	1
Acetone	ND		2.5	0.54	ug/L			07/30/13 14:35	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 14:35	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 14:35	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 14:35	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 14:35	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 14:35	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 14:35	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 14:35	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 14:35	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 14:35	1
Chloroform	0.55		0.50	0.14	ug/L			07/30/13 14:35	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 14:35	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 14:35	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 14:35	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 14:35	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 14:35	1
Dichlorodifluoromethane	0.37 J *		0.50	0.070	ug/L			07/30/13 14:35	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 14:35	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 14:35	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 14:35	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 14:35	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 14:35	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-2

Client Sample ID: 350 Meetinghouse Road Duplicate

Lab Sample ID: 480-42740-23

Date Collected: 07/25/13 14:05

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 14:35	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 14:35	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 14:35	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 14:35	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 14:35	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 14:35	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 14:35	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 14:35	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 14:35	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 14:35	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 14:35	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 14:35	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 14:35	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 14:35	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 14:35	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 14:35	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 14:35	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	110		80 - 120		07/30/13 14:35	1
4-Bromofluorobenzene (Surr)	104		80 - 120		07/30/13 14:35	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.2		0.20	0.040	ug/L		08/07/13 17:39	08/08/13 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	86		70 - 130	08/07/13 17:39	08/08/13 19:58	1

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-2

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)
480-42740-23	350 Meetinghouse Road Duplicate	110	104
LCS 480-131327/4	Lab Control Sample	102	109
MB 480-131327/5	Method Blank	105	101
Surrogate Legend			
12DCB = 1,2-Dichlorobenzene-d4			
BFB = 4-Bromofluorobenzene (Surr)			

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	14DD8 (70-130)	
480-42740-23	350 Meetinghouse Road Duplicate	86	
LCS 200-59495/2-A	Lab Control Sample	85	
MB 200-59495/1-A	Method Blank	89	
Surrogate Legend			
14DD8 = 1,4-Dioxane-d8 (Surr)			

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-2

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-131327/5

Matrix: Water

Analysis Batch: 131327

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 10:41	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 10:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 10:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 10:41	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 10:41	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 10:41	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 10:41	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 10:41	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 10:41	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 10:41	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 10:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 10:41	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 10:41	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 10:41	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 10:41	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 10:41	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 10:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 10:41	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 10:41	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 10:41	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 10:41	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 10:41	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 10:41	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 10:41	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 10:41	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 10:41	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 10:41	1
Acetone	ND		2.5	0.54	ug/L			07/30/13 10:41	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 10:41	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 10:41	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 10:41	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 10:41	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 10:41	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 10:41	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 10:41	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 10:41	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 10:41	1
Chloroform	ND		0.50	0.14	ug/L			07/30/13 10:41	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 10:41	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 10:41	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 10:41	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 10:41	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 10:41	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/30/13 10:41	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 10:41	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 10:41	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 10:41	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 10:41	1

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-2

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-131327/5

Matrix: Water

Analysis Batch: 131327

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 10:41	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 10:41	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 10:41	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 10:41	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 10:41	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 10:41	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 10:41	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 10:41	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 10:41	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 10:41	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 10:41	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 10:41	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 10:41	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 10:41	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 10:41	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/30/13 10:41	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 10:41	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 10:41	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 10:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		07/30/13 10:41	1
4-Bromofluorobenzene (Surr)	101		80 - 120		07/30/13 10:41	1

Lab Sample ID: LCS 480-131327/4

Matrix: Water

Analysis Batch: 131327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.40		ug/L		110	70 - 130
1,1,1-Trichloroethane	4.00	4.64		ug/L		116	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.60		ug/L		90	70 - 130
1,1,2-Trichloroethane	4.00	3.88		ug/L		97	70 - 130
1,1-Dichloroethane	4.00	4.05		ug/L		101	70 - 130
1,1-Dichloroethene	4.00	3.40		ug/L		85	70 - 130
1,1-Dichloropropene	4.00	4.33		ug/L		108	70 - 130
1,2,3-Trichlorobenzene	4.00	3.86		ug/L		97	70 - 130
1,2,3-Trichloropropane	4.00	4.37		ug/L		109	70 - 130
1,2,4-Trichlorobenzene	4.00	3.72		ug/L		93	70 - 130
1,2,4-Trimethylbenzene	4.00	4.09		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	4.13		ug/L		103	70 - 130
1,2-Dibromoethane	4.00	3.97		ug/L		99	70 - 130
1,2-Dichlorobenzene	4.00	3.93		ug/L		98	70 - 130
1,2-Dichloroethane	4.00	4.64		ug/L		116	70 - 130
1,2-Dichloropropane	4.00	3.82		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	4.00	4.03		ug/L		101	70 - 130
1,3-Dichlorobenzene	4.00	3.86		ug/L		96	70 - 130
1,3-Dichloropropane	4.00	4.08		ug/L		102	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-2

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-131327/4

Matrix: Water

Analysis Batch: 131327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.84		ug/L		96	70 - 130
2,2-Dichloropropane	4.00	4.15		ug/L		104	70 - 130
2-Butanone (MEK)	20.0	19.1		ug/L		95	70 - 130
2-Chlorotoluene	4.00	3.92		ug/L		98	70 - 130
4-Chlorotoluene	4.00	3.93		ug/L		98	70 - 130
4-Isopropyltoluene	4.00	3.99		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.4		ug/L		97	70 - 130
Acetone	20.0	20.0		ug/L		100	70 - 130
Benzene	4.00	3.80		ug/L		95	70 - 130
Bromobenzene	4.00	3.78		ug/L		95	70 - 130
Bromochloromethane	4.00	4.00		ug/L		100	70 - 130
Bromoform	4.00	3.99		ug/L		100	70 - 130
Bromomethane	4.00	4.09		ug/L		102	70 - 130
Carbon tetrachloride	4.00	4.80		ug/L		120	70 - 130
Chlorobenzene	4.00	3.90		ug/L		98	70 - 130
Chlorodibromomethane	4.00	4.26		ug/L		106	70 - 130
Chloroethane	4.00	4.03		ug/L		101	70 - 130
Chloroform	4.00	4.30		ug/L		107	70 - 130
Chloromethane	4.00	4.44		ug/L		111	70 - 130
cis-1,2-Dichloroethene	4.00	4.09		ug/L		102	70 - 130
cis-1,3-Dichloropropene	4.00	3.76		ug/L		94	70 - 130
Dibromomethane	4.00	4.11		ug/L		103	70 - 130
Dichlorobromomethane	4.00	4.27		ug/L		107	70 - 130
Dichlorodifluoromethane	4.00	5.64	*	ug/L		141	70 - 130
Ethylbenzene	4.00	4.12		ug/L		103	70 - 130
Hexachlorobutadiene	4.00	4.16		ug/L		104	70 - 130
Isopropylbenzene	4.00	4.13		ug/L		103	70 - 130
Methyl tert-butyl ether	4.00	3.68		ug/L		92	70 - 130
Methylene Chloride	4.00	3.60		ug/L		90	70 - 130
Naphthalene	4.00	3.59		ug/L		90	70 - 130
n-Butylbenzene	4.00	4.09		ug/L		102	70 - 130
N-Propylbenzene	4.00	3.93		ug/L		98	70 - 130
sec-Butylbenzene	4.00	3.97		ug/L		99	70 - 130
Styrene	4.00	4.11		ug/L		103	70 - 130
tert-Butylbenzene	4.00	3.94		ug/L		99	70 - 130
Tetrachloroethene	4.00	3.88		ug/L		97	70 - 130
Toluene	4.00	3.81		ug/L		95	70 - 130
trans-1,2-Dichloroethene	4.00	3.78		ug/L		95	70 - 130
trans-1,3-Dichloropropene	4.00	3.96		ug/L		99	70 - 130
Trichloroethene	4.00	3.77		ug/L		94	70 - 130
Trichlorofluoromethane	4.00	5.69	*	ug/L		142	70 - 130
Vinyl chloride	4.00	4.82		ug/L		120	70 - 130
Xylenes, Total	12.0	12.8		ug/L		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	102		80 - 120
4-Bromofluorobenzene (Surr)	109		80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-2

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-59495/1-A

Matrix: Water

Analysis Batch: 59549

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/07/13 17:39	08/08/13 14:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	89		70 - 130				08/07/13 17:39	08/08/13 14:32	1

Lab Sample ID: LCS 200-59495/2-A

Matrix: Water

Analysis Batch: 59549

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	8.00	9.14	E	ug/L		114	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	85		70 - 130				

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-2

GC/MS VOA

Analysis Batch: 131327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42740-23	350 Meetinghouse Road Duplicate	Total/NA	Water	524.2	
LCS 480-131327/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-131327/5	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 59495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42740-23	350 Meetinghouse Road Duplicate	Total/NA	Water	3535A	
LCS 200-59495/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-59495/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 59549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42740-23	350 Meetinghouse Road Duplicate	Total/NA	Water	522 MOD	59495
LCS 200-59495/2-A	Lab Control Sample	Total/NA	Water	522 MOD	59495
MB 200-59495/1-A	Method Blank	Total/NA	Water	522 MOD	59495

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-2

Client Sample ID: 350 Meetinghouse Road Duplicate

Lab Sample ID: 480-42740-23

Date Collected: 07/25/13 14:05

Matrix: Water

Date Received: 07/27/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	131327	07/30/13 14:35	CDC	TAL BUF
Total/NA	Prep	3535A			59495	08/07/13 17:39	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59549	08/08/13 19:58		TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-2

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13 *
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13 *

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-2

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-2

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-42740-23	350 Meetinghouse Road Duplicate	Water	07/25/13 14:05	07/27/13 02:30

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Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: MA MCP

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: David Bennett		Site Contact:		Date:		COC No:			
Bennett Environmental Associates, Inc.		Tel/Fax: 508-896-1706		Lab Contact:		Carrier:		1 of 3 COCs			
Address: 1573 Main St. / P.O. Box 1743		Analysis Turnaround Time		Calendar (C) or Work Days (W) C		For Lab Use Only:					
City/State/Zip: Brewster, MA 02631		TAT if different from Below				Walk-in Client:					
Phone: 508-896-1706		☒ 2 weeks				Lab Sampling:					
FAX: 508-896-5109		☐ 1 week				Job / SDG No.: BEA11-10104					
Project Name: Eastham Landfill		☐ 2 days				Sampler: LKM (BCDHE)					
Site: Town of Eastham		☐ 1 day				Sample Specific Notes:					
P O #: BEA09-10104											
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y/N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod		
170 Candlewood Drive	7/25/2013	9:25 am	G	W	5	N	G	3	2		
170 Candlewood Drive Duplicate	7/25/2013	9:25 am	G	W	4	N	G	3	1		
20 Chipman Street	7/25/2013	10:20 am	G	W	5	N	G	3	2		
20 Chipman Street Duplicate	7/25/2013	10:20 am	G	W	4	N	G	3	1		
230 Glacier Hills Road	7/25/2013	11:00 am	G	W	5	N	G	3	2		
230 Glacier Hills Road Duplicate	7/25/2013	11:00 am	G	W	4	N	G	3	1		
310 Glacier Hills Road	7/25/2013	11:45 am	G	W	5	N	G	3	2		
310 Glacier Hills Road Duplicate	7/25/2013	11:45 am	G	W	4	N	G	3	1		
25 Knowles Street (RES-36)	7/25/2013	12:35 pm	G	W	5	N	G	3	2		
25 Knowles Street (RES-36) Duplicate	7/25/2013	12:35 pm	G	W	4	N	G	3	1		
Trip Blank	7/25/2013	8:15 am	G	W	4	N	G	3	1		
						480-42740 Chain of Custody					
						1,2,1,2					
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.											
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown						☐ Return to Client ☐ Disposal by Lab ☐ Archive for Months					
Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com											
Relinquished by: Lynn Perry		Company: BCDHE		Date/Time: 7/25/13 1:00pm		Received by: [Signature]		Company: BEA		Date/Time: 7/25/13 1:16pm	
Relinquished by: [Signature]		Company: BEA		Date/Time: 7/25/13 4:30pm		Received by: [Signature]		Company: BEA		Date/Time:	
Relinquished by: [Signature]		Company: BEA		Date/Time: 7/26/13 10:15		Received in Laboratory by: [Signature]		Company: TH		Date/Time: 7/26/13 10:15	

7-26-13 15:00
[Signature]

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012
TH 7-27-13 8:23D

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: David Bennett		Site Contact:		Date:	
Bennett Environmental Associates, Inc.		Tel/Fax: 508-896-1706		Lab Contact:		Carrier:	
Address: 1573 Main St. / P.O. Box 1743		Analysis Turnaround Time		VOCs via 524.2		COC No: 2 of 3 COCs	
City/State/Zip: Brewster, MA 02631		Calendar (C) or Work Days (W) C		Filtered Sample (Y/N)		For Lab Use Only:	
Phone: 508-896-1706		TAT if different from Below		Composite = C / Grab = G		Walk-in Client:	
FAX: 508-896-5109		☒ 2 weeks		1,4-Dioxane via 522.1 Mod		Lab Sampling:	
Project Name: Eastham Landfill		☐ 1 week				Job / SDG No.: BEA11-10104	
Site: Town of Eastham		☐ 2 days				Sampler: JTW/JDB (BEA)	
P O #: BEA09-10104		☐ 1 day				Sample Specific Notes:	

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
55 Candlewood Drive	7/25/2013	9:45 am	G	W	5
55 Candlewood Drive Duplicate	7/25/2013	9:45 am	G	W	4
75 Deerfield Lane	7/25/2013	10:35 am	G	W	5
75 Deerfield Lane Duplicate	7/25/2013	10:35 am	G	W	4
50 Alston Ave. (RES-35)	7/25/2013	11:30 am	G	W	5
50 Alston Ave. (RES-35) Duplicate	7/25/2013	11:30 am	G	W	4
55 Deepwood Drive	7/25/2013	12:10 pm	G	W	5
55 Deepwood Drive Duplicate	7/25/2013	12:10 pm	G	W	4
11 Eldia Way (RES-24)	7/25/2013	1:05 pm	G	W	5
11 Eldia Way (RES-24) Duplicate	7/25/2013	1:05 pm	G	W	4
350 Meetinghouse Road	7/25/2013	2:05 pm	G	W	5
350 Meetinghouse Road Duplicate	7/25/2013	2:05 pm	G	W	4

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

Relinquished by: <i>[Signature]</i>	Company: BEA	Date/Time: 7/25/13 9:45 am	Received by: <i>[Signature]</i>	Company: BEA	Date/Time: 7/26/13 10:15 am
Relinquished by: <i>[Signature]</i>	Company: BEA	Date/Time: 7/26/13 10:15 am	Received by: <i>[Signature]</i>	Company: BEA	Date/Time: 7/27/13 10:23 am
Relinquished by: <i>[Signature]</i>	Company: BEA	Date/Time: 7/26/13 10:15 am	Received by: <i>[Signature]</i>	Company: BEA	Date/Time: 7/27/13 10:23 am

Chain of Custody Record

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: MA MCP

TestAmerica Laboratories, Inc.

Client Contact Bennett Environmental Associates, Inc. Address: 1573 Main St. / P.O. Box 1743 City/State/Zip: Brewster, MA 02631 Phone: 508-896-1706 FAX: 508-896-5109 Project Name: Eastham Landfill Site: Town of Eastham P O #: BEA09-10104		Project Manager: David Bennett Tel/Fax: 508-896-1706		Site Contact: Lab Contact:		Date: Carrier:		COC No: 3 of 3 COCs		
Analysis Turnaround Time Calendar (C) or Work Days (W) C TAT if different from Below ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Sample Date		Sample Time	Sample Type	Matrix	# of Cont.	For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.: BEA11-10104 Sampler: JTW/JDB (BEA) Sample Specific Notes:		
Atlantic Oaks 'H' Well		7/25/2013	2:55 pm	G	W	5	N	1,4-Dioxane via 522.1 Mod		
Atlantic Oaks 'H' Well Duplicate		7/25/2013	2:55 pm	G	W	4	N	VOCs via 524.2		
Atlantic Oaks North Well		7/25/2013	3:35 pm	G	W	5	N	Composite = C / Grab = G		
Atlantic Oaks North Well Duplicate		7/25/2013	3:35 pm	G	W	4	N	Filtered Sample (Y/N)		
Trip Blank		7/25/2013	8:15 am	G	W	4	N	1,2,1,2		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months	
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown										
Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com										
Relinquished by: <i>[Signature]</i>		Company: BEA		Date/Time: 7/25/13		Received by: <i>[Signature]</i>		Company: TA		
Relinquished by: <i>[Signature]</i>		Company: BEA		Date/Time: 7/25/13		Received by: <i>[Signature]</i>		Company: TA		
Relinquished by: <i>[Signature]</i>		Company: BEA		Date/Time: 7/26/13		Received by: <i>[Signature]</i>		Company: TA		

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-42740-2

Login Number: 42740

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	False	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-42740-2

Login Number: 42740

List Number: 1

Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington

List Creation: 07/31/13 11:56 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	957383, 384
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2°C, 2.4°C IR GUN ID 181. CF -0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received extra samples not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-42959-1

Client Project/Site: Eastham Landfill IRA

For:

Bennett Environmental Associates, Inc.

1573 Main St.

Brewster, Massachusetts 02631

Attn: David Bennett



Authorized for release by:

8/8/2013 5:22:21 PM

Steve Hartmann, Lab Director

steve.hartmann@testamericainc.com

LINKS

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results through

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Job ID: 480-42959-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-42959-1

Receipt

The samples were received on 8/1/2013 2:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS VOA (524)

No analytical or quality issues were noted.

GC/MS Semi VOA (522)

Method(s) 522 MOD: The surrogate recovery for the laboratory control sample associated with batch 59295 was outside recovery limits. All associated sample surrogates fell within acceptance criteria; therefore, the data have been reported.

No other analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 25 Deepwood Drive

Lab Sample ID: 480-42959-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0		2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.72		0.50	0.14	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.25	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.073	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 5 Whidah Lane

Lab Sample ID: 480-42959-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.16	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 75 Deepwood Drive

Lab Sample ID: 480-42959-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.0	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.16	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 65 Deepwood Drive

Lab Sample ID: 480-42959-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.8	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.49	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.29		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 70 Deepwood Drive

Lab Sample ID: 480-42959-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.68		0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.073	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 30 Knowles Street (RES-31)

Lab Sample ID: 480-42959-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.32	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	1.4	J	2.5	0.54	ug/L	1		524.2	Total/NA
Benzene	0.29	J	0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.27	J	0.50	0.070	ug/L	1		524.2	Total/NA
Chloroform	0.18	J	0.50	0.14	ug/L	1		524.2	Total/NA
Chloromethane	0.25	J	0.50	0.063	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	1.5		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.77		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	7.8	J	10	2.5	ug/L	1		524.2	Total/NA
1,4-Dioxane	5.1		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-42959-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.70	J	2.5	0.25	ug/L	1		524.2	Total/NA
Acetone	6.9		2.5	0.54	ug/L	1		524.2	Total/NA
Naphthalene	0.39	J	0.50	0.060	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: Trip Blank (Continued)

Lab Sample ID: 480-42959-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	0.063	J	0.50	0.044	ug/L	1		524.2	Total/NA
Toluene	0.13	J	0.50	0.10	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 25 Deepwood Drive

Lab Sample ID: 480-42959-1

Date Collected: 07/30/13 09:50

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 12:24	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 12:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 12:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 12:24	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 12:24	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/05/13 12:24	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 12:24	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 12:24	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 12:24	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 12:24	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 12:24	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 12:24	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 12:24	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 12:24	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 12:24	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 12:24	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 12:24	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 12:24	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 12:24	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 12:24	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 12:24	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 12:24	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 12:24	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 12:24	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 12:24	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 12:24	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 12:24	1
Acetone	3.0		2.5	0.54	ug/L			08/05/13 12:24	1
Benzene	ND		0.50	0.13	ug/L			08/05/13 12:24	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 12:24	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 12:24	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 12:24	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 12:24	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 12:24	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 12:24	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 12:24	1
Chloroethane	ND		0.50	0.070	ug/L			08/05/13 12:24	1
Chloroform	0.72		0.50	0.14	ug/L			08/05/13 12:24	1
Chloromethane	ND		0.50	0.063	ug/L			08/05/13 12:24	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/05/13 12:24	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 12:24	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 12:24	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 12:24	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 12:24	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 12:24	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 12:24	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 12:24	1
Methyl tert-butyl ether	0.25 J		0.50	0.12	ug/L			08/05/13 12:24	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 12:24	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 25 Deepwood Drive

Lab Sample ID: 480-42959-1

Date Collected: 07/30/13 09:50

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 12:24	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 12:24	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 12:24	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 12:24	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 12:24	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 12:24	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 12:24	1
t-Butanol	ND		10	2.5	ug/L			08/05/13 12:24	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 12:24	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 12:24	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 12:24	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 12:24	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 12:24	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 12:24	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 12:24	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 12:24	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 12:24	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	101		80 - 120		08/05/13 12:24	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/05/13 12:24	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.073	J	0.20	0.040	ug/L		08/02/13 18:31	08/06/13 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	94		70 - 130	08/02/13 18:31	08/06/13 15:33	1

Client Sample ID: 5 Whidah Lane

Lab Sample ID: 480-42959-3

Date Collected: 07/30/13 10:40

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 13:18	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 13:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 13:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 13:18	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 13:18	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/05/13 13:18	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 13:18	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 13:18	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 13:18	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 13:18	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 13:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 13:18	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 13:18	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 13:18	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 5 Whidah Lane

Lab Sample ID: 480-42959-3

Date Collected: 07/30/13 10:40

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 13:18	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 13:18	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 13:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 13:18	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 13:18	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 13:18	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 13:18	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 13:18	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 13:18	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 13:18	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 13:18	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 13:18	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 13:18	1
Acetone	ND		2.5	0.54	ug/L			08/05/13 13:18	1
Benzene	ND		0.50	0.13	ug/L			08/05/13 13:18	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 13:18	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 13:18	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 13:18	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 13:18	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 13:18	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 13:18	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 13:18	1
Chloroethane	ND		0.50	0.070	ug/L			08/05/13 13:18	1
Chloroform	0.16	J	0.50	0.14	ug/L			08/05/13 13:18	1
Chloromethane	ND		0.50	0.063	ug/L			08/05/13 13:18	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/05/13 13:18	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 13:18	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 13:18	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 13:18	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 13:18	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 13:18	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 13:18	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 13:18	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/05/13 13:18	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 13:18	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 13:18	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 13:18	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 13:18	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 13:18	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 13:18	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 13:18	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 13:18	1
t-Butanol	ND		10	2.5	ug/L			08/05/13 13:18	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 13:18	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 13:18	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 13:18	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 13:18	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 13:18	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 13:18	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 5 Whidah Lane

Lab Sample ID: 480-42959-3

Date Collected: 07/30/13 10:40

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 13:18	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 13:18	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 13:18	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		08/05/13 13:18	1
4-Bromofluorobenzene (Surr)	102		80 - 120		08/05/13 13:18	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/02/13 18:31	08/06/13 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	78		70 - 130	08/02/13 18:31	08/06/13 15:55	1

Client Sample ID: 75 Deepwood Drive

Lab Sample ID: 480-42959-5

Date Collected: 07/30/13 11:35

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 14:08	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 14:08	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 14:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 14:08	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 14:08	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/05/13 14:08	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 14:08	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 14:08	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 14:08	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 14:08	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 14:08	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 14:08	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 14:08	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 14:08	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 14:08	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 14:08	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 14:08	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 14:08	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 14:08	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 14:08	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 14:08	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 14:08	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 14:08	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 14:08	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 14:08	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 14:08	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 14:08	1
Acetone	1.0	J	2.5	0.54	ug/L			08/05/13 14:08	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 75 Deepwood Drive

Lab Sample ID: 480-42959-5

Date Collected: 07/30/13 11:35

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			08/05/13 14:08	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 14:08	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 14:08	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 14:08	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 14:08	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 14:08	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 14:08	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 14:08	1
Chloroethane	ND		0.50	0.070	ug/L			08/05/13 14:08	1
Chloroform	0.16	J	0.50	0.14	ug/L			08/05/13 14:08	1
Chloromethane	ND		0.50	0.063	ug/L			08/05/13 14:08	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/05/13 14:08	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 14:08	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 14:08	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 14:08	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 14:08	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 14:08	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 14:08	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 14:08	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/05/13 14:08	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 14:08	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 14:08	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 14:08	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 14:08	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 14:08	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 14:08	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 14:08	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 14:08	1
t-Butanol	ND		10	2.5	ug/L			08/05/13 14:08	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 14:08	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 14:08	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 14:08	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 14:08	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 14:08	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 14:08	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 14:08	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 14:08	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 14:08	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/05/13 14:08	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/05/13 14:08	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/02/13 18:31	08/06/13 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	88		70 - 130	08/02/13 18:31	08/06/13 16:20	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 65 Deepwood Drive

Lab Sample ID: 480-42959-7

Date Collected: 07/30/13 12:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 14:57	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 14:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 14:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 14:57	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 14:57	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/05/13 14:57	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 14:57	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 14:57	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 14:57	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 14:57	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 14:57	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 14:57	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 14:57	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 14:57	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 14:57	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 14:57	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 14:57	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 14:57	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 14:57	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 14:57	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 14:57	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 14:57	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 14:57	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 14:57	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 14:57	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 14:57	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 14:57	1
Acetone	1.8	J	2.5	0.54	ug/L			08/05/13 14:57	1
Benzene	ND		0.50	0.13	ug/L			08/05/13 14:57	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 14:57	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 14:57	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 14:57	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 14:57	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 14:57	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 14:57	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 14:57	1
Chloroethane	ND		0.50	0.070	ug/L			08/05/13 14:57	1
Chloroform	0.49	J	0.50	0.14	ug/L			08/05/13 14:57	1
Chloromethane	ND		0.50	0.063	ug/L			08/05/13 14:57	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/05/13 14:57	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 14:57	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 14:57	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 14:57	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 14:57	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 14:57	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 14:57	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 14:57	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/05/13 14:57	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 14:57	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 65 Deepwood Drive

Lab Sample ID: 480-42959-7

Date Collected: 07/30/13 12:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 14:57	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 14:57	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 14:57	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 14:57	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 14:57	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 14:57	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 14:57	1
t-Butanol	ND		10	2.5	ug/L			08/05/13 14:57	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 14:57	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 14:57	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 14:57	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 14:57	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 14:57	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 14:57	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 14:57	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 14:57	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 14:57	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	100		80 - 120		08/05/13 14:57	1
4-Bromofluorobenzene (Surr)	102		80 - 120		08/05/13 14:57	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.29		0.20	0.040	ug/L		08/02/13 18:31	08/06/13 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	89		70 - 130	08/02/13 18:31	08/06/13 16:42	1

Client Sample ID: 70 Deepwood Drive

Lab Sample ID: 480-42959-9

Date Collected: 07/30/13 13:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 15:47	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 15:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 15:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 15:47	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 15:47	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/05/13 15:47	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 15:47	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 15:47	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 15:47	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 15:47	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 15:47	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 15:47	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 15:47	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 15:47	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 70 Deepwood Drive

Lab Sample ID: 480-42959-9

Date Collected: 07/30/13 13:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 15:47	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 15:47	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 15:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 15:47	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 15:47	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 15:47	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 15:47	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 15:47	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 15:47	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 15:47	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 15:47	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 15:47	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 15:47	1
Acetone	1.1	J	2.5	0.54	ug/L			08/05/13 15:47	1
Benzene	ND		0.50	0.13	ug/L			08/05/13 15:47	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 15:47	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 15:47	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 15:47	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 15:47	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 15:47	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 15:47	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 15:47	1
Chloroethane	ND		0.50	0.070	ug/L			08/05/13 15:47	1
Chloroform	0.68		0.50	0.14	ug/L			08/05/13 15:47	1
Chloromethane	ND		0.50	0.063	ug/L			08/05/13 15:47	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/05/13 15:47	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 15:47	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 15:47	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 15:47	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 15:47	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 15:47	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 15:47	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 15:47	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/05/13 15:47	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 15:47	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 15:47	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 15:47	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 15:47	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 15:47	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 15:47	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 15:47	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 15:47	1
t-Butanol	ND		10	2.5	ug/L			08/05/13 15:47	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 15:47	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 15:47	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 15:47	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 15:47	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 15:47	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 15:47	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 70 Deepwood Drive

Lab Sample ID: 480-42959-9

Date Collected: 07/30/13 13:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 15:47	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 15:47	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 15:47	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	100		80 - 120		08/05/13 15:47	1
4-Bromofluorobenzene (Surr)	100		80 - 120		08/05/13 15:47	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.073	J	0.20	0.040	ug/L		08/02/13 18:31	08/06/13 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	92		70 - 130	08/02/13 18:31	08/06/13 17:07	1

Client Sample ID: 30 Knowles Street (RES-31)

Lab Sample ID: 480-42959-11

Date Collected: 07/30/13 14:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 16:37	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 16:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 16:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 16:37	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 16:37	1
1,1-Dichloroethane	0.32	J	0.50	0.074	ug/L			08/05/13 16:37	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 16:37	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 16:37	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 16:37	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 16:37	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 16:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 16:37	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 16:37	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 16:37	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 16:37	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 16:37	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 16:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 16:37	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 16:37	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 16:37	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 16:37	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 16:37	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 16:37	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 16:37	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 16:37	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 16:37	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 16:37	1
Acetone	1.4	J	2.5	0.54	ug/L			08/05/13 16:37	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 30 Knowles Street (RES-31)

Lab Sample ID: 480-42959-11

Date Collected: 07/30/13 14:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.29	J	0.50	0.13	ug/L			08/05/13 16:37	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 16:37	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 16:37	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 16:37	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 16:37	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 16:37	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 16:37	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 16:37	1
Chloroethane	0.27	J	0.50	0.070	ug/L			08/05/13 16:37	1
Chloroform	0.18	J	0.50	0.14	ug/L			08/05/13 16:37	1
Chloromethane	0.25	J	0.50	0.063	ug/L			08/05/13 16:37	1
cis-1,2-Dichloroethene	1.5		0.50	0.12	ug/L			08/05/13 16:37	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 16:37	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 16:37	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 16:37	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 16:37	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 16:37	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 16:37	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 16:37	1
Methyl tert-butyl ether	0.77		0.50	0.12	ug/L			08/05/13 16:37	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 16:37	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 16:37	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 16:37	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 16:37	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 16:37	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 16:37	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 16:37	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 16:37	1
t-Butanol	7.8	J	10	2.5	ug/L			08/05/13 16:37	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 16:37	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 16:37	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 16:37	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 16:37	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 16:37	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 16:37	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 16:37	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 16:37	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 16:37	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/05/13 16:37	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/05/13 16:37	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	5.1		0.20	0.040	ug/L		08/02/13 18:31	08/06/13 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	77		70 - 130	08/02/13 18:31	08/06/13 17:29	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-42959-13

Date Collected: 07/30/13 08:00

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 17:26	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 17:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 17:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 17:26	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 17:26	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/05/13 17:26	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 17:26	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 17:26	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 17:26	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 17:26	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 17:26	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 17:26	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 17:26	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 17:26	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 17:26	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 17:26	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 17:26	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 17:26	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 17:26	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 17:26	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 17:26	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 17:26	1
2-Butanone (MEK)	0.70	J	2.5	0.25	ug/L			08/05/13 17:26	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 17:26	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 17:26	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 17:26	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 17:26	1
Acetone	6.9		2.5	0.54	ug/L			08/05/13 17:26	1
Benzene	ND		0.50	0.13	ug/L			08/05/13 17:26	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 17:26	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 17:26	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 17:26	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 17:26	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 17:26	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 17:26	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 17:26	1
Chloroethane	ND		0.50	0.070	ug/L			08/05/13 17:26	1
Chloroform	ND		0.50	0.14	ug/L			08/05/13 17:26	1
Chloromethane	ND		0.50	0.063	ug/L			08/05/13 17:26	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/05/13 17:26	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 17:26	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 17:26	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 17:26	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 17:26	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 17:26	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 17:26	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 17:26	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/05/13 17:26	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 17:26	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-42959-13

Date Collected: 07/30/13 08:00

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 17:26	1
Naphthalene	0.39	J	0.50	0.060	ug/L			08/05/13 17:26	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 17:26	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 17:26	1
o-Xylene	0.063	J	0.50	0.044	ug/L			08/05/13 17:26	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 17:26	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 17:26	1
t-Butanol	ND		10	2.5	ug/L			08/05/13 17:26	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 17:26	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 17:26	1
Toluene	0.13	J	0.50	0.10	ug/L			08/05/13 17:26	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 17:26	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 17:26	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 17:26	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 17:26	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 17:26	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 17:26	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120					08/05/13 17:26	1
4-Bromofluorobenzene (Surr)	100		80 - 120					08/05/13 17:26	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/02/13 18:31	08/06/13 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	95		70 - 130				08/02/13 18:31	08/06/13 17:54	1

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)
480-42959-1	25 Deepwood Drive	101	101
480-42959-3	5 Whidah Lane	104	102
480-42959-5	75 Deepwood Drive	102	101
480-42959-7	65 Deepwood Drive	100	102
480-42959-9	70 Deepwood Drive	100	100
480-42959-11	30 Knowles Street (RES-31)	102	101
480-42959-13	Trip Blank	103	100
LCS 480-132329/5	Lab Control Sample	102	101
MB 480-132329/6	Method Blank	101	100

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	14DD8 (70-130)
480-42959-1	25 Deepwood Drive	94
480-42959-3	5 Whidah Lane	78
480-42959-5	75 Deepwood Drive	88
480-42959-7	65 Deepwood Drive	89
480-42959-9	70 Deepwood Drive	92
480-42959-11	30 Knowles Street (RES-31)	77
480-42959-13	Trip Blank	95
LCS 200-59295/2-A	Lab Control Sample	67 X
MB 200-59295/1-A	Method Blank	77

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-132329/6

Matrix: Water

Analysis Batch: 132329

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 11:53	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 11:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 11:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 11:53	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 11:53	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/05/13 11:53	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 11:53	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 11:53	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 11:53	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 11:53	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 11:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 11:53	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 11:53	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 11:53	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 11:53	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 11:53	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 11:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 11:53	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 11:53	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 11:53	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 11:53	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 11:53	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 11:53	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 11:53	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 11:53	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 11:53	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 11:53	1
Acetone	ND		2.5	0.54	ug/L			08/05/13 11:53	1
Benzene	ND		0.50	0.13	ug/L			08/05/13 11:53	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 11:53	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 11:53	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 11:53	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 11:53	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 11:53	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 11:53	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 11:53	1
Chloroethane	ND		0.50	0.070	ug/L			08/05/13 11:53	1
Chloroform	ND		0.50	0.14	ug/L			08/05/13 11:53	1
Chloromethane	ND		0.50	0.063	ug/L			08/05/13 11:53	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/05/13 11:53	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 11:53	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 11:53	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 11:53	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 11:53	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 11:53	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 11:53	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 11:53	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/05/13 11:53	1

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-132329/6

Matrix: Water

Analysis Batch: 132329

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 11:53	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 11:53	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 11:53	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 11:53	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 11:53	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 11:53	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 11:53	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 11:53	1
t-Butanol	ND		10	2.5	ug/L			08/05/13 11:53	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 11:53	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 11:53	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 11:53	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 11:53	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 11:53	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 11:53	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 11:53	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 11:53	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 11:53	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 11:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	101		80 - 120		08/05/13 11:53	1
4-Bromofluorobenzene (Surr)	100		80 - 120		08/05/13 11:53	1

Lab Sample ID: LCS 480-132329/5

Matrix: Water

Analysis Batch: 132329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.70		ug/L		93	70 - 130
1,1,1-Trichloroethane	4.00	3.57		ug/L		89	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.59		ug/L		90	70 - 130
1,1,2-Trichloroethane	4.00	3.59		ug/L		90	70 - 130
1,1-Dichloroethane	4.00	3.48		ug/L		87	70 - 130
1,1-Dichloroethene	4.00	3.01		ug/L		75	70 - 130
1,1-Dichloropropene	4.00	3.66		ug/L		91	70 - 130
1,2,3-Trichlorobenzene	4.00	4.27		ug/L		107	70 - 130
1,2,3-Trichloropropane	4.00	3.64		ug/L		91	70 - 130
1,2,4-Trichlorobenzene	4.00	4.04		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	4.00	3.73		ug/L		93	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.93		ug/L		98	70 - 130
1,2-Dibromoethane	4.00	3.67		ug/L		92	70 - 130
1,2-Dichlorobenzene	4.00	3.73		ug/L		93	70 - 130
1,2-Dichloroethane	4.00	3.72		ug/L		93	70 - 130
1,2-Dichloropropane	4.00	3.62		ug/L		90	70 - 130
1,3,5-Trimethylbenzene	4.00	3.67		ug/L		92	70 - 130
1,3-Dichlorobenzene	4.00	3.67		ug/L		92	70 - 130
1,3-Dichloropropane	4.00	3.64		ug/L		91	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-132329/5

Matrix: Water

Analysis Batch: 132329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.62		ug/L		90	70 - 130
2,2-Dichloropropane	4.00	3.48		ug/L		87	70 - 130
2-Butanone (MEK)	20.0	19.8		ug/L		99	70 - 130
2-Chlorotoluene	4.00	3.62		ug/L		90	70 - 130
4-Chlorotoluene	4.00	3.62		ug/L		91	70 - 130
4-Isopropyltoluene	4.00	3.67		ug/L		92	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.6		ug/L		98	70 - 130
Acetone	20.0	21.9		ug/L		109	70 - 130
Benzene	4.00	3.61		ug/L		90	70 - 130
Bromobenzene	4.00	3.67		ug/L		92	70 - 130
Bromochloromethane	4.00	3.63		ug/L		91	70 - 130
Bromoform	4.00	3.68		ug/L		92	70 - 130
Bromomethane	4.00	3.71		ug/L		93	70 - 130
Carbon tetrachloride	4.00	3.48		ug/L		87	70 - 130
Chlorobenzene	4.00	3.64		ug/L		91	70 - 130
Chlorodibromomethane	4.00	3.61		ug/L		90	70 - 130
Chloroethane	4.00	3.81		ug/L		95	70 - 130
Chloroform	4.00	3.51		ug/L		88	70 - 130
Chloromethane	4.00	3.87		ug/L		97	70 - 130
cis-1,2-Dichloroethene	4.00	3.61		ug/L		90	70 - 130
cis-1,3-Dichloropropene	4.00	3.52		ug/L		88	70 - 130
Dibromomethane	4.00	3.65		ug/L		91	70 - 130
Dichlorobromomethane	4.00	3.56		ug/L		89	70 - 130
Dichlorodifluoromethane	4.00	4.40		ug/L		110	70 - 130
Ethylbenzene	4.00	3.60		ug/L		90	70 - 130
Hexachlorobutadiene	4.00	3.77		ug/L		94	70 - 130
Isopropylbenzene	4.00	3.65		ug/L		91	70 - 130
Methyl tert-butyl ether	4.00	3.73		ug/L		93	70 - 130
Methylene Chloride	4.00	3.52		ug/L		88	70 - 130
Naphthalene	4.00	4.21		ug/L		105	70 - 130
n-Butylbenzene	4.00	3.72		ug/L		93	70 - 130
N-Propylbenzene	4.00	3.69		ug/L		92	70 - 130
sec-Butylbenzene	4.00	3.63		ug/L		91	70 - 130
Styrene	4.00	3.68		ug/L		92	70 - 130
tert-Butylbenzene	4.00	3.67		ug/L		92	70 - 130
Tetrachloroethene	4.00	3.45		ug/L		86	70 - 130
Toluene	4.00	3.62		ug/L		91	70 - 130
trans-1,2-Dichloroethene	4.00	3.37		ug/L		84	70 - 130
trans-1,3-Dichloropropene	4.00	3.45		ug/L		86	70 - 130
Trichloroethene	4.00	3.52		ug/L		88	70 - 130
Trichlorofluoromethane	4.00	3.80		ug/L		95	70 - 130
Vinyl chloride	4.00	3.83		ug/L		96	70 - 130
Xylenes, Total	12.0	11.0		ug/L		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	102		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-59295/1-A

Matrix: Water

Analysis Batch: 59370

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59295

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/02/13 18:31	08/06/13 13:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	77		70 - 130				08/02/13 18:31	08/06/13 13:49	1

Lab Sample ID: LCS 200-59295/2-A

Matrix: Water

Analysis Batch: 59370

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59295

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.00	1.61		ug/L		81	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	67	X	70 - 130				

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

GC/MS VOA

Analysis Batch: 132329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42959-1	25 Deepwood Drive	Total/NA	Water	524.2	
480-42959-3	5 Whidah Lane	Total/NA	Water	524.2	
480-42959-5	75 Deepwood Drive	Total/NA	Water	524.2	
480-42959-7	65 Deepwood Drive	Total/NA	Water	524.2	
480-42959-9	70 Deepwood Drive	Total/NA	Water	524.2	
480-42959-11	30 Knowles Street (RES-31)	Total/NA	Water	524.2	
480-42959-13	Trip Blank	Total/NA	Water	524.2	
LCS 480-132329/5	Lab Control Sample	Total/NA	Water	524.2	
MB 480-132329/6	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 59295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42959-1	25 Deepwood Drive	Total/NA	Water	3535A	
480-42959-3	5 Whidah Lane	Total/NA	Water	3535A	
480-42959-5	75 Deepwood Drive	Total/NA	Water	3535A	
480-42959-7	65 Deepwood Drive	Total/NA	Water	3535A	
480-42959-9	70 Deepwood Drive	Total/NA	Water	3535A	
480-42959-11	30 Knowles Street (RES-31)	Total/NA	Water	3535A	
480-42959-13	Trip Blank	Total/NA	Water	3535A	
LCS 200-59295/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-59295/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 59370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42959-1	25 Deepwood Drive	Total/NA	Water	522 MOD	59295
480-42959-3	5 Whidah Lane	Total/NA	Water	522 MOD	59295
480-42959-5	75 Deepwood Drive	Total/NA	Water	522 MOD	59295
480-42959-7	65 Deepwood Drive	Total/NA	Water	522 MOD	59295
480-42959-9	70 Deepwood Drive	Total/NA	Water	522 MOD	59295
480-42959-11	30 Knowles Street (RES-31)	Total/NA	Water	522 MOD	59295
480-42959-13	Trip Blank	Total/NA	Water	522 MOD	59295
LCS 200-59295/2-A	Lab Control Sample	Total/NA	Water	522 MOD	59295
MB 200-59295/1-A	Method Blank	Total/NA	Water	522 MOD	59295

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 25 Deepwood Drive

Date Collected: 07/30/13 09:50

Date Received: 08/01/13 02:30

Lab Sample ID: 480-42959-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132329	08/05/13 12:24	CDC	TAL BUF
Total/NA	Prep	3535A			59295	08/02/13 18:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/06/13 15:33	RJH	TAL BUR

Client Sample ID: 5 Whidah Lane

Date Collected: 07/30/13 10:40

Date Received: 08/01/13 02:30

Lab Sample ID: 480-42959-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132329	08/05/13 13:18	CDC	TAL BUF
Total/NA	Prep	3535A			59295	08/02/13 18:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/06/13 15:55	RJH	TAL BUR

Client Sample ID: 75 Deepwood Drive

Date Collected: 07/30/13 11:35

Date Received: 08/01/13 02:30

Lab Sample ID: 480-42959-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132329	08/05/13 14:08	CDC	TAL BUF
Total/NA	Prep	3535A			59295	08/02/13 18:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/06/13 16:20	RJH	TAL BUR

Client Sample ID: 65 Deepwood Drive

Date Collected: 07/30/13 12:55

Date Received: 08/01/13 02:30

Lab Sample ID: 480-42959-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132329	08/05/13 14:57	CDC	TAL BUF
Total/NA	Prep	3535A			59295	08/02/13 18:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/06/13 16:42	RJH	TAL BUR

Client Sample ID: 70 Deepwood Drive

Date Collected: 07/30/13 13:55

Date Received: 08/01/13 02:30

Lab Sample ID: 480-42959-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132329	08/05/13 15:47	CDC	TAL BUF
Total/NA	Prep	3535A			59295	08/02/13 18:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/06/13 17:07	RJH	TAL BUR

TestAmerica Buffalo

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 30 Knowles Street (RES-31)

Lab Sample ID: 480-42959-11

Date Collected: 07/30/13 14:55

Matrix: Water

Date Received: 08/01/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132329	08/05/13 16:37	CDC	TAL BUF
Total/NA	Prep	3535A			59295	08/02/13 18:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/06/13 17:29	RJH	TAL BUR

Client Sample ID: Trip Blank

Lab Sample ID: 480-42959-13

Date Collected: 07/30/13 08:00

Matrix: Water

Date Received: 08/01/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132329	08/05/13 17:26	CDC	TAL BUF
Total/NA	Prep	3535A			59295	08/02/13 18:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/06/13 17:54	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13 *
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13 *

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-42959-1	25 Deepwood Drive	Water	07/30/13 09:50	08/01/13 02:30
480-42959-3	5 Whidah Lane	Water	07/30/13 10:40	08/01/13 02:30
480-42959-5	75 Deepwood Drive	Water	07/30/13 11:35	08/01/13 02:30
480-42959-7	65 Deepwood Drive	Water	07/30/13 12:55	08/01/13 02:30
480-42959-9	70 Deepwood Drive	Water	07/30/13 13:55	08/01/13 02:30
480-42959-11	30 Knowles Street (RES-31)	Water	07/30/13 14:55	08/01/13 02:30
480-42959-13	Trip Blank	Water	07/30/13 08:00	08/01/13 02:30

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: MA MCP

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: David Bennett Tel/Fax: 508-896-1706		Site Contact:		Date:		COC No:	
Bennett Environmental Associates, Inc. Address: 1573 Main St. / P.O. Box 1743 City/State/Zip: Brewster, MA 02631		Analysis Turnaround Time Calendar (C) or Work Days (W) C		Lab Contact:		Carrier:		1 of 2 COCs	
Phone: 508-896-1706 FAX: 508-896-5109 Project Name: Eastham Landfill Site: Town of Eastham P.O.#: BEA09-10104		TAT if different from Below ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Filtered Sample (Y/N)				For Lab Use Only: Walk-in Client: Lab Sampling:	
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes:		
25 Deepwood Drive		7/30/2013	9:50 am	G	W	5			
26 Deepwood Drive Duplicate		7/30/2013	9:50 am	G	W	4			
5 Whidah Lane		7/30/2013	10:40 am	G	W	5			
5 Whidah Lane Duplicate		7/30/2013	10:40 am	G	W	4			
75 Deepwood Drive		7/30/2013	11:35 am	G	W	5			
75 Deepwood Drive Duplicate		7/30/2013	11:35 am	G	W	4			
65 Deepwood Drive		7/30/2013	12:55 pm	G	W	5			
65 Deepwood Drive Duplicate		7/30/2013	12:55 pm	G	W	4			
70 Deepwood Drive		7/30/2013	1:55 pm	G	W	5			
70 Deepwood Drive Duplicate		7/30/2013	1:55 pm	G	W	4			
30 Knowles Street (RES-31)		7/30/2013	2:55 pm	G	W	5			
30 Knowles Street (RES-31) Duplicate		7/30/2013	2:55 pm	G	W	4			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other
Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

Relinquished by:	Company: BEA	Date/Time: 7/31/13 4:30	Received by:	Company:	Date/Time:
Relinquished by:	Company: BEA	Date/Time: 7/31/13 10:30	Received by:	Company: T-H	Date/Time: 7/31/13 10:30
Relinquished by:	Company: TAL	Date/Time: 7/31/13 13:40	Received in Laboratory by:	Company: TAL	Date/Time: 7/31/13 02:20

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

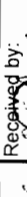
Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: **MA MCP**

TestAmerica Laboratories, Inc.

[illegible]

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

1871

Relinquished by: 	Company: 	Date/Time: 7/13/13 4:30	Received by: 	Company: [illegible]	Date/Time: [illegible]
Relinquished by: 	Company: 	Date/Time: 7/13/13 10:30	Received by: 	Company: T.A.	Date/Time: 7/31/13 (03C)
Relinquished by: 	Company: 	Date/Time: 7/13/13 15:40	Received in Laboratory by: 	Company: T.A.	Date/Time: 8-1-13 2234

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-42959-1

Login Number: 42959

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	False	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-42959-1

Login Number: 42959

List Source: TestAmerica Burlington

List Number: 1

List Creation: 08/02/13 01:46 PM

Creator: Gagne, Eric M

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	957398
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6°C IR GUN ID 181. CF -0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-42959-2

Client Project/Site: Eastham Landfill IRA

For:

Bennett Environmental Associates, Inc.

1573 Main St.

Brewster, Massachusetts 02631

Attn: David Bennett



Authorized for release by:

8/16/2013 1:59:58 PM

Steve Hartmann, Lab Director

steve.hartmann@testamericainc.com

LINKS

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results through

TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

Job ID: 480-42959-2

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-42959-2

Receipt

The samples were received on 8/1/2013 2:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

This is a stand alone report for Samples 65 Deepwood Drive duplicate (480-42959-8) and 30 Knowles Street duplicate (480-42959-12) that were activated for analysis on 8/8/13. This was originally on hold per client request.

GC/MS VOA (524)

No analytical or quality issues were noted.

GC/MS Semi VOA (522)

No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

Client Sample ID: 65 Deepwood Drive Duplicate

Lab Sample ID: 480-42959-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.51		0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.24		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 30 Knowles Street (RES-31) Duplicate

Lab Sample ID: 480-42959-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.32	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	0.81	J	2.5	0.54	ug/L	1		524.2	Total/NA
Benzene	0.29	J	0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.26	J	0.50	0.070	ug/L	1		524.2	Total/NA
Chloroform	0.18	J	0.50	0.14	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	1.5		0.50	0.12	ug/L	1		524.2	Total/NA
Dichlorodifluoromethane	0.23	J	0.50	0.070	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.74		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	3.5	J	10	2.5	ug/L	1		524.2	Total/NA
1,4-Dioxane	5.1		0.20	0.040	ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

Client Sample ID: 65 Deepwood Drive Duplicate

Lab Sample ID: 480-42959-8

Date Collected: 07/30/13 12:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 15:22	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 15:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 15:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 15:22	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 15:22	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/05/13 15:22	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 15:22	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 15:22	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 15:22	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 15:22	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 15:22	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 15:22	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 15:22	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 15:22	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 15:22	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 15:22	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 15:22	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 15:22	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 15:22	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 15:22	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 15:22	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 15:22	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 15:22	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 15:22	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 15:22	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 15:22	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 15:22	1
Acetone	1.4	J	2.5	0.54	ug/L			08/05/13 15:22	1
Benzene	ND		0.50	0.13	ug/L			08/05/13 15:22	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 15:22	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 15:22	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 15:22	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 15:22	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 15:22	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 15:22	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 15:22	1
Chloroethane	ND		0.50	0.070	ug/L			08/05/13 15:22	1
Chloroform	0.51		0.50	0.14	ug/L			08/05/13 15:22	1
Chloromethane	ND		0.50	0.063	ug/L			08/05/13 15:22	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/05/13 15:22	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 15:22	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 15:22	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 15:22	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 15:22	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 15:22	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 15:22	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 15:22	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/05/13 15:22	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 15:22	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

Client Sample ID: 65 Deepwood Drive Duplicate

Lab Sample ID: 480-42959-8

Date Collected: 07/30/13 12:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 15:22	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 15:22	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 15:22	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 15:22	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 15:22	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 15:22	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 15:22	1
t-Butanol	ND		10	2.5	ug/L			08/05/13 15:22	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 15:22	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 15:22	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 15:22	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 15:22	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 15:22	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 15:22	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 15:22	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 15:22	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 15:22	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		08/05/13 15:22	1
4-Bromofluorobenzene (Surr)	103		80 - 120		08/05/13 15:22	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.24		0.20	0.040	ug/L		08/09/13 22:31	08/13/13 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	73		70 - 130	08/09/13 22:31	08/13/13 15:45	1

Client Sample ID: 30 Knowles Street (RES-31) Duplicate

Lab Sample ID: 480-42959-12

Date Collected: 07/30/13 14:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 17:01	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 17:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 17:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 17:01	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 17:01	1
1,1-Dichloroethane	0.32	J	0.50	0.074	ug/L			08/05/13 17:01	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 17:01	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 17:01	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 17:01	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 17:01	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 17:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 17:01	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 17:01	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 17:01	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

Client Sample ID: 30 Knowles Street (RES-31) Duplicate

Lab Sample ID: 480-42959-12

Date Collected: 07/30/13 14:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 17:01	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 17:01	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 17:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 17:01	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 17:01	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 17:01	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 17:01	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 17:01	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 17:01	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 17:01	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 17:01	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 17:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 17:01	1
Acetone	0.81	J	2.5	0.54	ug/L			08/05/13 17:01	1
Benzene	0.29	J	0.50	0.13	ug/L			08/05/13 17:01	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 17:01	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 17:01	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 17:01	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 17:01	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 17:01	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 17:01	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 17:01	1
Chloroethane	0.26	J	0.50	0.070	ug/L			08/05/13 17:01	1
Chloroform	0.18	J	0.50	0.14	ug/L			08/05/13 17:01	1
Chloromethane	ND		0.50	0.063	ug/L			08/05/13 17:01	1
cis-1,2-Dichloroethene	1.5		0.50	0.12	ug/L			08/05/13 17:01	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 17:01	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 17:01	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 17:01	1
Dichlorodifluoromethane	0.23	J	0.50	0.070	ug/L			08/05/13 17:01	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 17:01	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 17:01	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 17:01	1
Methyl tert-butyl ether	0.74		0.50	0.12	ug/L			08/05/13 17:01	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 17:01	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 17:01	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 17:01	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 17:01	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 17:01	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 17:01	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 17:01	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 17:01	1
t-Butanol	3.5	J	10	2.5	ug/L			08/05/13 17:01	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 17:01	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 17:01	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 17:01	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 17:01	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 17:01	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 17:01	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

Client Sample ID: 30 Knowles Street (RES-31) Duplicate

Lab Sample ID: 480-42959-12

Date Collected: 07/30/13 14:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 17:01	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 17:01	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 17:01	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	100		80 - 120					08/05/13 17:01	1
4-Bromofluorobenzene (Surr)	100		80 - 120					08/05/13 17:01	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	5.1		0.20	0.040	ug/L		08/09/13 13:50	08/12/13 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	77		70 - 130				08/09/13 13:50	08/12/13 17:21	1

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)
480-42959-8	65 Deepwood Drive Duplicate	103	103
480-42959-12	30 Knowles Street (RES-31) Duplicate	100	100
LCS 480-132329/5	Lab Control Sample	102	101
MB 480-132329/6	Method Blank	101	100

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	14DD8 (70-130)
480-42959-8	65 Deepwood Drive Duplicate	73
480-42959-12	30 Knowles Street (RES-31) Duplicate	77
LCS 200-59603/2-A	Lab Control Sample	80
LCS 200-59622/2-A	Lab Control Sample	75
MB 200-59603/1-A	Method Blank	88
MB 200-59622/1-A	Method Blank	90

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-132329/6

Matrix: Water

Analysis Batch: 132329

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 11:53	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 11:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 11:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 11:53	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 11:53	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/05/13 11:53	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 11:53	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 11:53	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 11:53	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 11:53	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 11:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 11:53	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 11:53	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 11:53	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 11:53	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 11:53	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 11:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 11:53	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 11:53	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 11:53	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 11:53	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 11:53	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 11:53	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 11:53	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 11:53	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 11:53	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 11:53	1
Acetone	ND		2.5	0.54	ug/L			08/05/13 11:53	1
Benzene	ND		0.50	0.13	ug/L			08/05/13 11:53	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 11:53	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 11:53	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 11:53	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 11:53	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 11:53	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 11:53	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 11:53	1
Chloroethane	ND		0.50	0.070	ug/L			08/05/13 11:53	1
Chloroform	ND		0.50	0.14	ug/L			08/05/13 11:53	1
Chloromethane	ND		0.50	0.063	ug/L			08/05/13 11:53	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/05/13 11:53	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 11:53	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 11:53	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 11:53	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 11:53	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 11:53	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 11:53	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 11:53	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/05/13 11:53	1

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-132329/6

Matrix: Water

Analysis Batch: 132329

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 11:53	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 11:53	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 11:53	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 11:53	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 11:53	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 11:53	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 11:53	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 11:53	1
t-Butanol	ND		10	2.5	ug/L			08/05/13 11:53	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 11:53	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 11:53	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 11:53	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 11:53	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 11:53	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 11:53	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 11:53	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 11:53	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 11:53	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 11:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	101		80 - 120		08/05/13 11:53	1
4-Bromofluorobenzene (Surr)	100		80 - 120		08/05/13 11:53	1

Lab Sample ID: LCS 480-132329/5

Matrix: Water

Analysis Batch: 132329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.70		ug/L		93	70 - 130
1,1,1-Trichloroethane	4.00	3.57		ug/L		89	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.59		ug/L		90	70 - 130
1,1,2-Trichloroethane	4.00	3.59		ug/L		90	70 - 130
1,1-Dichloroethane	4.00	3.48		ug/L		87	70 - 130
1,1-Dichloroethene	4.00	3.01		ug/L		75	70 - 130
1,1-Dichloropropene	4.00	3.66		ug/L		91	70 - 130
1,2,3-Trichlorobenzene	4.00	4.27		ug/L		107	70 - 130
1,2,3-Trichloropropane	4.00	3.64		ug/L		91	70 - 130
1,2,4-Trichlorobenzene	4.00	4.04		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	4.00	3.73		ug/L		93	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.93		ug/L		98	70 - 130
1,2-Dibromoethane	4.00	3.67		ug/L		92	70 - 130
1,2-Dichlorobenzene	4.00	3.73		ug/L		93	70 - 130
1,2-Dichloroethane	4.00	3.72		ug/L		93	70 - 130
1,2-Dichloropropane	4.00	3.62		ug/L		90	70 - 130
1,3,5-Trimethylbenzene	4.00	3.67		ug/L		92	70 - 130
1,3-Dichlorobenzene	4.00	3.67		ug/L		92	70 - 130
1,3-Dichloropropane	4.00	3.64		ug/L		91	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-132329/5

Matrix: Water

Analysis Batch: 132329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.62		ug/L		90	70 - 130
2,2-Dichloropropane	4.00	3.48		ug/L		87	70 - 130
2-Butanone (MEK)	20.0	19.8		ug/L		99	70 - 130
2-Chlorotoluene	4.00	3.62		ug/L		90	70 - 130
4-Chlorotoluene	4.00	3.62		ug/L		91	70 - 130
4-Isopropyltoluene	4.00	3.67		ug/L		92	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.6		ug/L		98	70 - 130
Acetone	20.0	21.9		ug/L		109	70 - 130
Benzene	4.00	3.61		ug/L		90	70 - 130
Bromobenzene	4.00	3.67		ug/L		92	70 - 130
Bromochloromethane	4.00	3.63		ug/L		91	70 - 130
Bromoform	4.00	3.68		ug/L		92	70 - 130
Bromomethane	4.00	3.71		ug/L		93	70 - 130
Carbon tetrachloride	4.00	3.48		ug/L		87	70 - 130
Chlorobenzene	4.00	3.64		ug/L		91	70 - 130
Chlorodibromomethane	4.00	3.61		ug/L		90	70 - 130
Chloroethane	4.00	3.81		ug/L		95	70 - 130
Chloroform	4.00	3.51		ug/L		88	70 - 130
Chloromethane	4.00	3.87		ug/L		97	70 - 130
cis-1,2-Dichloroethene	4.00	3.61		ug/L		90	70 - 130
cis-1,3-Dichloropropene	4.00	3.52		ug/L		88	70 - 130
Dibromomethane	4.00	3.65		ug/L		91	70 - 130
Dichlorobromomethane	4.00	3.56		ug/L		89	70 - 130
Dichlorodifluoromethane	4.00	4.40		ug/L		110	70 - 130
Ethylbenzene	4.00	3.60		ug/L		90	70 - 130
Hexachlorobutadiene	4.00	3.77		ug/L		94	70 - 130
Isopropylbenzene	4.00	3.65		ug/L		91	70 - 130
Methyl tert-butyl ether	4.00	3.73		ug/L		93	70 - 130
Methylene Chloride	4.00	3.52		ug/L		88	70 - 130
Naphthalene	4.00	4.21		ug/L		105	70 - 130
n-Butylbenzene	4.00	3.72		ug/L		93	70 - 130
N-Propylbenzene	4.00	3.69		ug/L		92	70 - 130
sec-Butylbenzene	4.00	3.63		ug/L		91	70 - 130
Styrene	4.00	3.68		ug/L		92	70 - 130
tert-Butylbenzene	4.00	3.67		ug/L		92	70 - 130
Tetrachloroethene	4.00	3.45		ug/L		86	70 - 130
Toluene	4.00	3.62		ug/L		91	70 - 130
trans-1,2-Dichloroethene	4.00	3.37		ug/L		84	70 - 130
trans-1,3-Dichloropropene	4.00	3.45		ug/L		86	70 - 130
Trichloroethene	4.00	3.52		ug/L		88	70 - 130
Trichlorofluoromethane	4.00	3.80		ug/L		95	70 - 130
Vinyl chloride	4.00	3.83		ug/L		96	70 - 130
Xylenes, Total	12.0	11.0		ug/L		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	102		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-59603/1-A

Matrix: Water

Analysis Batch: 59669

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59603

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/09/13 13:50	08/12/13 16:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	88		70 - 130				08/09/13 13:50	08/12/13 16:08	1

Lab Sample ID: LCS 200-59603/2-A

Matrix: Water

Analysis Batch: 59669

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.200	0.202		ug/L		101	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	80		70 - 130				

Lab Sample ID: MB 200-59622/1-A

Matrix: Water

Analysis Batch: 59693

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/09/13 22:31	08/13/13 15:23	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	90		70 - 130				08/09/13 22:31	08/13/13 15:23	1

Lab Sample ID: LCS 200-59622/2-A

Matrix: Water

Analysis Batch: 59693

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	8.00	8.28	E	ug/L		103	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	75		70 - 130				

TestAmerica Buffalo

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

GC/MS VOA

Analysis Batch: 132329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42959-8	65 Deepwood Drive Duplicate	Total/NA	Water	524.2	
480-42959-12	30 Knowles Street (RES-31) Duplicate	Total/NA	Water	524.2	
LCS 480-132329/5	Lab Control Sample	Total/NA	Water	524.2	
MB 480-132329/6	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 59603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42959-12	30 Knowles Street (RES-31) Duplicate	Total/NA	Water	3535A	
LCS 200-59603/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-59603/1-A	Method Blank	Total/NA	Water	3535A	

Prep Batch: 59622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42959-8	65 Deepwood Drive Duplicate	Total/NA	Water	3535A	
LCS 200-59622/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-59622/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 59669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42959-12	30 Knowles Street (RES-31) Duplicate	Total/NA	Water	522 MOD	59603
LCS 200-59603/2-A	Lab Control Sample	Total/NA	Water	522 MOD	59603
MB 200-59603/1-A	Method Blank	Total/NA	Water	522 MOD	59603

Analysis Batch: 59693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42959-8	65 Deepwood Drive Duplicate	Total/NA	Water	522 MOD	59622
LCS 200-59622/2-A	Lab Control Sample	Total/NA	Water	522 MOD	59622
MB 200-59622/1-A	Method Blank	Total/NA	Water	522 MOD	59622

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

Client Sample ID: 65 Deepwood Drive Duplicate

Lab Sample ID: 480-42959-8

Date Collected: 07/30/13 12:55

Matrix: Water

Date Received: 08/01/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132329	08/05/13 15:22	CDC	TAL BUF
Total/NA	Prep	3535A			59622	08/09/13 22:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59693	08/13/13 15:45	RJH	TAL BUR

Client Sample ID: 30 Knowles Street (RES-31) Duplicate

Lab Sample ID: 480-42959-12

Date Collected: 07/30/13 14:55

Matrix: Water

Date Received: 08/01/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132329	08/05/13 17:01	CDC	TAL BUF
Total/NA	Prep	3535A			59603	08/09/13 13:50	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	59669	08/12/13 17:21	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13 *
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13 *

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-42959-8	65 Deepwood Drive Duplicate	Water	07/30/13 12:55	08/01/13 02:30
480-42959-12	30 Knowles Street (RES-31) Duplicate	Water	07/30/13 14:55	08/01/13 02:30

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact						Project Manager: David Bennett Tel/Fax: 508-896-1706						Site Contact:						Date:					
Bennett Environmental Associates, Inc. Address: 1573 Main St. / P.O. Box 1743 City/State/Zip: Brewster, MA 02631 Phone: 508-896-1706 FAX: 508-896-5109 Project Name: Eastham Landfill Site: Town of Eastham P.O.#: BEA09-10104						Analysis Turnaround Time Calendar (C) or Work Days (W) C ☐ TAT if different from Below ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day						Lab Contact:						Carrier:					
Sample Identification						Sample Date		Sample Time		Sample Type		Matrix		# of Cont.		Filtered Sample (Y/N) Composite = C / Grab = G VOCs via 524.2 1,4-Dioxane via 522.1 Mod							
25 Deepwood Drive						7/30/2013		9:50 am		G		W		5		N G 3 2							
26 Deepwood Drive Duplicate						7/30/2013		9:50 am		G		W		4		N G 3 1							
5 Whidah Lane						7/30/2013		10:40 am		G		W		5		N G 3 2							
5 Whidah Lane Duplicate						7/30/2013		10:40 am		G		W		4		N G 3 1							
75 Deepwood Drive						7/30/2013		11:35 am		G		W		5		N G 3 2							
75 Deepwood Drive Duplicate						7/30/2013		11:35 am		G		W		4		N G 3 1							
65 Deepwood Drive						7/30/2013		12:55 pm		G		W		5		N G 3 2							
65 Deepwood Drive Duplicate						7/30/2013		12:55 pm		G		W		4		N G 3 1							
70 Deepwood Drive						7/30/2013		1:55 pm		G		W		5		N G 3 2							
70 Deepwood Drive Duplicate						7/30/2013		1:55 pm		G		W		4		N G 3 1							
30 Knowles Street (RES-31)						7/30/2013		2:55 pm		G		W		5		N G 3 2							
30 Knowles Street (RES-31) Duplicate						7/30/2013		2:55 pm		G		W		4		N G 3 1							
Preservation Used: 1= Ice, 2= HCl; 3= H ₂ SO ₄ ; 4=HNO ₃ ; 5=NaOH; 6= Other _____																1,2,1,2							
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Comments Section if the lab is to dispose of the sample.						Please List any EPA Waste Codes for the sample in the																	
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown						☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months																	
Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com																							
Relinquished by: [Signature]						Company: BEA		Date/Time: 7/31/13 4:30		Received by: [Signature]		Company: TTH		Date/Time: 7/31/13 10:30									
Relinquished by: [Signature]						Company: BEA		Date/Time: 7/31/13 10:30		Received by: [Signature]		Company: TTH		Date/Time: 7/31/13 10:30									
Relinquished by: [Signature]						Company: TAL		Date/Time: 7/31/13 13:40		Received in Laboratory by: [Signature]		Company: TAL		Date/Time: 8/1/13 02:20									

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: **MA MCP**

TestAmerica Laboratories, Inc.

[illegible]

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

2-8#1

Relinquished by:		Company: VEA	Date/Time: 7/13/03	Received by: [Signature]	Company: [Blank]	Date/Time: [Blank]
Relinquished by:	[Signature]	Company: [Blank]	Date/Time: 7/13/03	Received by: [Signature]	Company: TA	Date/Time: 7-1-03
Relinquished by:	[Signature]	Company: TA	Date/Time: 7/13/03	Received in Laboratory by: [Signature]	Company: TA	Date/Time: 8-1-03

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-42959-2

Login Number: 42959

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	False	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-42959-2

Login Number: 42959

List Number: 1

Creator: Gagne, Eric M

List Source: TestAmerica Burlington

List Creation: 08/02/13 01:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	957398
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6°C IR GUN ID 181. CF -0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-43031-1

Client Project/Site: Eastham Landfill IRA

For:

Bennett Environmental Associates, Inc.

1573 Main St.

Brewster, Massachusetts 02631

Attn: David Bennett



Authorized for release by:

8/9/2013 9:34:12 AM

Steve Hartmann, Lab Director

steve.hartmann@testamericainc.com

LINKS

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results through

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Job ID: 480-43031-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-43031-1

Receipt

The samples were received on 8/2/2013 2:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.0° C and 2.8° C.

GC/MS VOA (524)

No analytical or quality issues were noted.

GC/MS Semi VOA (522)

Method(s) 522 MOD: The following samples were diluted to bring the concentration of target analytes within the calibration range: 325 Schoolhouse Road (RES-30) Raw Water (480-43031-24). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 65 Piper Lane

Lab Sample ID: 480-43031-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.6	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloromethane	0.12	J	0.50	0.063	ug/L	1		524.2	Total/NA

Client Sample ID: 3 Sharon Circle

Lab Sample ID: 480-43031-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	2.5	0.54	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.064	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 200 Glacier Hills Road

Lab Sample ID: 480-43031-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.78	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.45	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 300 Glacier Hills

Lab Sample ID: 480-43031-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.86		0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.077	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 35 Surrey Drive

Lab Sample ID: 480-43031-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	2.5	0.54	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.22	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.070	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-43031-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	0.14	J	0.50	0.13	ug/L	1		524.2	Total/NA
Acetone	5.1		2.5	0.54	ug/L	1		524.2	Total/NA
Naphthalene	0.33	J	0.50	0.060	ug/L	1		524.2	Total/NA
o-Xylene	0.055	J	0.50	0.044	ug/L	1		524.2	Total/NA
Toluene	0.12	J	0.50	0.10	ug/L	1		524.2	Total/NA

Client Sample ID: 40 Chipman Street

Lab Sample ID: 480-43031-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	2.5	0.54	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.046	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 50 Starlight Lane

Lab Sample ID: 480-43031-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.0	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloromethane	0.078	J	0.50	0.063	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.13	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 440 Meetinghouse Road

Lab Sample ID: 480-43031-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.20	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 235 Alston Avenue

Lab Sample ID: 480-43031-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloromethane	0.10	J	0.50	0.063	ug/L	1		524.2	Total/NA

Client Sample ID: 155 Meetinghouse Road

Lab Sample ID: 480-43031-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	2.5	0.54	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.46		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 30 Deepwood Drive

Lab Sample ID: 480-43031-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.57	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.32	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.040	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 325 Schoolhouse Road (RES-30) Raw Water

Lab Sample ID: 480-43031-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.35	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	1.3	J	2.5	0.54	ug/L	1		524.2	Total/NA
Benzene	0.59		0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.49	J	0.50	0.070	ug/L	1		524.2	Total/NA
Chloromethane	0.11	J	0.50	0.063	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	2.1		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	1.6		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	8.3	J	10	2.5	ug/L	1		524.2	Total/NA
Vinyl chloride	0.22	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	9.4		0.40	0.080	ug/L	2		522 MOD	Total/NA

Client Sample ID: 325 Schoolhouse Road (RES-30) Intermediate

Lab Sample ID: 480-43031-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.084	J	0.50	0.063	ug/L	1		524.2	Total/NA

Client Sample ID: 325 Schoolhouse Road (RES-30) Finish Water

Lab Sample ID: 480-43031-28

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 480-43031-30

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: Trip Blank (Continued)

Lab Sample ID: 480-43031-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	0.13	J	0.50	0.13	ug/L	1		524.2	Total/NA
Acetone	5.6		2.5	0.54	ug/L	1		524.2	Total/NA
Naphthalene	0.30	J	0.50	0.060	ug/L	1		524.2	Total/NA
o-Xylene	0.059	J	0.50	0.044	ug/L	1		524.2	Total/NA
Toluene	0.11	J	0.50	0.10	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 65 Piper Lane

Lab Sample ID: 480-43031-1

Date Collected: 07/31/13 10:00

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 23:42	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 23:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 23:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 23:42	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 23:42	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/05/13 23:42	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 23:42	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 23:42	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 23:42	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 23:42	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 23:42	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 23:42	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 23:42	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 23:42	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 23:42	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 23:42	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 23:42	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 23:42	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 23:42	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 23:42	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 23:42	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 23:42	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 23:42	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 23:42	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 23:42	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 23:42	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 23:42	1
Acetone	1.6	J	2.5	0.54	ug/L			08/05/13 23:42	1
Benzene	ND		0.50	0.13	ug/L			08/05/13 23:42	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 23:42	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 23:42	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 23:42	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 23:42	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 23:42	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 23:42	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 23:42	1
Chloroethane	ND		0.50	0.070	ug/L			08/05/13 23:42	1
Chloroform	ND		0.50	0.14	ug/L			08/05/13 23:42	1
Chloromethane	0.12	J	0.50	0.063	ug/L			08/05/13 23:42	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/05/13 23:42	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 23:42	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 23:42	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 23:42	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 23:42	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 23:42	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 23:42	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 23:42	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/05/13 23:42	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 23:42	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 65 Piper Lane

Lab Sample ID: 480-43031-1

Date Collected: 07/31/13 10:00

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 23:42	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 23:42	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 23:42	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 23:42	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 23:42	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 23:42	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 23:42	1
t-Butanol	ND		10	2.5	ug/L			08/05/13 23:42	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 23:42	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 23:42	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 23:42	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 23:42	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 23:42	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 23:42	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 23:42	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 23:42	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 23:42	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 23:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/05/13 23:42	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/05/13 23:42	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/05/13 19:22	08/07/13 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	109		70 - 130	08/05/13 19:22	08/07/13 02:41	1

Client Sample ID: 3 Sharon Circle

Lab Sample ID: 480-43031-3

Date Collected: 07/31/13 10:50

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 00:34	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 00:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 00:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 00:34	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 00:34	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 00:34	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 00:34	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 00:34	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 00:34	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 00:34	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 00:34	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 00:34	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 00:34	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 00:34	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 3 Sharon Circle

Lab Sample ID: 480-43031-3

Date Collected: 07/31/13 10:50

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 00:34	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 00:34	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 00:34	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 00:34	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 00:34	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 00:34	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 00:34	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 00:34	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 00:34	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 00:34	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 00:34	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 00:34	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 00:34	1
Acetone	1.3	J	2.5	0.54	ug/L			08/06/13 00:34	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 00:34	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 00:34	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 00:34	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 00:34	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 00:34	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 00:34	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 00:34	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 00:34	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 00:34	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 00:34	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 00:34	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 00:34	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 00:34	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 00:34	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 00:34	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 00:34	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 00:34	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 00:34	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 00:34	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 00:34	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 00:34	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 00:34	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 00:34	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 00:34	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 00:34	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 00:34	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 00:34	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 00:34	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 00:34	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 00:34	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 00:34	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 00:34	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 00:34	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 00:34	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 00:34	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 3 Sharon Circle

Lab Sample ID: 480-43031-3

Date Collected: 07/31/13 10:50

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 00:34	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 00:34	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 00:34	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		08/06/13 00:34	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/06/13 00:34	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.064	J	0.20	0.040	ug/L		08/05/13 19:22	08/07/13 03:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	106		70 - 130	08/05/13 19:22	08/07/13 03:04	1

Client Sample ID: 200 Glacier Hills Road

Lab Sample ID: 480-43031-5

Date Collected: 07/31/13 11:20

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 01:25	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 01:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 01:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 01:25	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 01:25	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 01:25	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 01:25	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 01:25	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 01:25	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 01:25	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 01:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 01:25	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 01:25	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 01:25	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 01:25	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 01:25	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 01:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 01:25	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 01:25	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 01:25	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 01:25	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 01:25	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 01:25	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 01:25	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 01:25	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 01:25	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 01:25	1
Acetone	0.78	J	2.5	0.54	ug/L			08/06/13 01:25	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 200 Glacier Hills Road

Lab Sample ID: 480-43031-5

Date Collected: 07/31/13 11:20

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			08/06/13 01:25	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 01:25	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 01:25	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 01:25	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 01:25	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 01:25	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 01:25	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 01:25	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 01:25	1
Chloroform	0.45	J	0.50	0.14	ug/L			08/06/13 01:25	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 01:25	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 01:25	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 01:25	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 01:25	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 01:25	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 01:25	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 01:25	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 01:25	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 01:25	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 01:25	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 01:25	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 01:25	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 01:25	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 01:25	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 01:25	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 01:25	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 01:25	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 01:25	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 01:25	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 01:25	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 01:25	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 01:25	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 01:25	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 01:25	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 01:25	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 01:25	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 01:25	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 01:25	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 01:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		08/06/13 01:25	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/06/13 01:25	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/05/13 19:22	08/07/13 03:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	88		70 - 130	08/05/13 19:22	08/07/13 03:28	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 300 Glacier Hills

Lab Sample ID: 480-43031-7

Date Collected: 07/31/13 12:10

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 02:15	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 02:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 02:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 02:15	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 02:15	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 02:15	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 02:15	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 02:15	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 02:15	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 02:15	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 02:15	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 02:15	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 02:15	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 02:15	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 02:15	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 02:15	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 02:15	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 02:15	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 02:15	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 02:15	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 02:15	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 02:15	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 02:15	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 02:15	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 02:15	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 02:15	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 02:15	1
Acetone	1.2 J		2.5	0.54	ug/L			08/06/13 02:15	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 02:15	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 02:15	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 02:15	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 02:15	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 02:15	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 02:15	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 02:15	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 02:15	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 02:15	1
Chloroform	0.86		0.50	0.14	ug/L			08/06/13 02:15	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 02:15	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 02:15	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 02:15	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 02:15	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 02:15	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 02:15	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 02:15	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 02:15	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 02:15	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 02:15	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 02:15	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 300 Glacier Hills

Lab Sample ID: 480-43031-7

Date Collected: 07/31/13 12:10

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 02:15	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 02:15	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 02:15	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 02:15	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 02:15	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 02:15	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 02:15	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 02:15	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 02:15	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 02:15	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 02:15	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 02:15	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 02:15	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 02:15	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 02:15	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 02:15	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 02:15	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		08/06/13 02:15	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/06/13 02:15	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.077	J	0.20	0.040	ug/L		08/05/13 19:22	08/07/13 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	101		70 - 130	08/05/13 19:22	08/07/13 04:14	1

Client Sample ID: 35 Surrey Drive

Lab Sample ID: 480-43031-9

Date Collected: 07/31/13 13:05

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 03:05	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 03:05	1
1,1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 03:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 03:05	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 03:05	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 03:05	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 03:05	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 03:05	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 03:05	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 03:05	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 03:05	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 03:05	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 03:05	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 03:05	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 35 Surrey Drive

Lab Sample ID: 480-43031-9

Date Collected: 07/31/13 13:05

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 03:05	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 03:05	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 03:05	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 03:05	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 03:05	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 03:05	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 03:05	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 03:05	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 03:05	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 03:05	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 03:05	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 03:05	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 03:05	1
Acetone	1.1	J	2.5	0.54	ug/L			08/06/13 03:05	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 03:05	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 03:05	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 03:05	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 03:05	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 03:05	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 03:05	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 03:05	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 03:05	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 03:05	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 03:05	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 03:05	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 03:05	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 03:05	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 03:05	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 03:05	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 03:05	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 03:05	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 03:05	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 03:05	1
Methyl tert-butyl ether	0.22	J	0.50	0.12	ug/L			08/06/13 03:05	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 03:05	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 03:05	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 03:05	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 03:05	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 03:05	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 03:05	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 03:05	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 03:05	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 03:05	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 03:05	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 03:05	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 03:05	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 03:05	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 03:05	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 03:05	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 35 Surrey Drive

Date Collected: 07/31/13 13:05

Date Received: 08/02/13 02:30

Lab Sample ID: 480-43031-9

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 03:05	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 03:05	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 03:05	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 03:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120					08/06/13 03:05	1
4-Bromofluorobenzene (Surr)	99		80 - 120					08/06/13 03:05	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.070	J	0.20	0.040	ug/L		08/05/13 19:22	08/07/13 04:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	106		70 - 130				08/05/13 19:22	08/07/13 04:36	1

Client Sample ID: Trip Blank

Date Collected: 07/31/13 08:15

Date Received: 08/02/13 02:30

Lab Sample ID: 480-43031-11

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 03:56	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 03:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 03:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 03:56	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 03:56	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 03:56	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 03:56	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 03:56	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 03:56	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 03:56	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 03:56	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 03:56	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 03:56	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 03:56	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 03:56	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 03:56	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 03:56	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 03:56	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 03:56	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 03:56	1
1,4-Dichlorobenzene	0.14	J	0.50	0.13	ug/L			08/06/13 03:56	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 03:56	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 03:56	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 03:56	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 03:56	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 03:56	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 03:56	1
Acetone	5.1		2.5	0.54	ug/L			08/06/13 03:56	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-43031-11

Date Collected: 07/31/13 08:15

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			08/06/13 03:56	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 03:56	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 03:56	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 03:56	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 03:56	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 03:56	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 03:56	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 03:56	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 03:56	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 03:56	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 03:56	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 03:56	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 03:56	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 03:56	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 03:56	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 03:56	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 03:56	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 03:56	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 03:56	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 03:56	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 03:56	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 03:56	1
Naphthalene	0.33	J	0.50	0.060	ug/L			08/06/13 03:56	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 03:56	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 03:56	1
o-Xylene	0.055	J	0.50	0.044	ug/L			08/06/13 03:56	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 03:56	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 03:56	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 03:56	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 03:56	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 03:56	1
Toluene	0.12	J	0.50	0.10	ug/L			08/06/13 03:56	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 03:56	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 03:56	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 03:56	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 03:56	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 03:56	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 03:56	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 03:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/06/13 03:56	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/06/13 03:56	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/05/13 19:22	08/07/13 05:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	96		70 - 130	08/05/13 19:22	08/07/13 05:00	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 40 Chipman Street

Lab Sample ID: 480-43031-12

Date Collected: 07/31/13 09:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 04:21	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 04:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 04:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 04:21	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 04:21	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 04:21	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 04:21	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 04:21	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 04:21	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 04:21	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 04:21	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 04:21	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 04:21	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 04:21	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 04:21	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 04:21	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 04:21	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 04:21	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 04:21	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 04:21	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 04:21	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 04:21	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 04:21	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 04:21	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 04:21	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 04:21	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 04:21	1
Acetone	1.3 J		2.5	0.54	ug/L			08/06/13 04:21	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 04:21	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 04:21	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 04:21	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 04:21	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 04:21	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 04:21	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 04:21	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 04:21	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 04:21	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 04:21	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 04:21	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 04:21	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 04:21	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 04:21	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 04:21	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 04:21	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 04:21	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 04:21	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 04:21	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 04:21	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 04:21	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 40 Chipman Street

Lab Sample ID: 480-43031-12

Date Collected: 07/31/13 09:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 04:21	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 04:21	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 04:21	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 04:21	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 04:21	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 04:21	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 04:21	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 04:21	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 04:21	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 04:21	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 04:21	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 04:21	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 04:21	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 04:21	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 04:21	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 04:21	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 04:21	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		08/06/13 04:21	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/06/13 04:21	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.046	J	0.20	0.040	ug/L		08/05/13 19:22	08/07/13 05:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	108		70 - 130	08/05/13 19:22	08/07/13 05:21	1

Client Sample ID: 50 Starlight Lane

Lab Sample ID: 480-43031-14

Date Collected: 07/31/13 11:15

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 13:47	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 13:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 13:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 13:47	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 13:47	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 13:47	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 13:47	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 13:47	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 13:47	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 13:47	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 13:47	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 13:47	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 13:47	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 13:47	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 50 Starlight Lane

Lab Sample ID: 480-43031-14

Date Collected: 07/31/13 11:15

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 13:47	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 13:47	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 13:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 13:47	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 13:47	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 13:47	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 13:47	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 13:47	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 13:47	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 13:47	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 13:47	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 13:47	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 13:47	1
Acetone	1.0	J	2.5	0.54	ug/L			08/06/13 13:47	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 13:47	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 13:47	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 13:47	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 13:47	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 13:47	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 13:47	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 13:47	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 13:47	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 13:47	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 13:47	1
Chloromethane	0.078	J	0.50	0.063	ug/L			08/06/13 13:47	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 13:47	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 13:47	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 13:47	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 13:47	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 13:47	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 13:47	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 13:47	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 13:47	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 13:47	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 13:47	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 13:47	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 13:47	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 13:47	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 13:47	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 13:47	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 13:47	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 13:47	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 13:47	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 13:47	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 13:47	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 13:47	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 13:47	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 13:47	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 13:47	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 50 Starlight Lane

Lab Sample ID: 480-43031-14

Date Collected: 07/31/13 11:15

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 13:47	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 13:47	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 13:47	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 13:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120					08/06/13 13:47	1
4-Bromofluorobenzene (Surr)	99		80 - 120					08/06/13 13:47	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.13	J	0.20	0.040	ug/L		08/05/13 19:22	08/07/13 05:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	99		70 - 130				08/05/13 19:22	08/07/13 05:45	1

Client Sample ID: 440 Meetinghouse Road

Lab Sample ID: 480-43031-16

Date Collected: 07/31/13 11:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 14:38	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 14:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 14:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 14:38	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 14:38	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 14:38	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 14:38	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 14:38	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 14:38	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 14:38	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 14:38	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 14:38	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 14:38	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 14:38	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 14:38	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 14:38	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 14:38	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 14:38	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 14:38	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 14:38	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 14:38	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 14:38	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 14:38	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 14:38	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 14:38	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 14:38	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 14:38	1
Acetone	1.3	J	2.5	0.54	ug/L			08/06/13 14:38	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 440 Meetinghouse Road

Lab Sample ID: 480-43031-16

Date Collected: 07/31/13 11:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			08/06/13 14:38	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 14:38	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 14:38	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 14:38	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 14:38	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 14:38	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 14:38	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 14:38	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 14:38	1
Chloroform	0.20	J	0.50	0.14	ug/L			08/06/13 14:38	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 14:38	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 14:38	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 14:38	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 14:38	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 14:38	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 14:38	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 14:38	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 14:38	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 14:38	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 14:38	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 14:38	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 14:38	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 14:38	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 14:38	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 14:38	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 14:38	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 14:38	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 14:38	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 14:38	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 14:38	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 14:38	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 14:38	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 14:38	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 14:38	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 14:38	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 14:38	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 14:38	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 14:38	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	101		80 - 120		08/06/13 14:38	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/06/13 14:38	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/05/13 19:22	08/07/13 06:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	102		70 - 130	08/05/13 19:22	08/07/13 06:07	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 235 Alston Avenue

Lab Sample ID: 480-43031-18

Date Collected: 07/31/13 13:05

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 15:29	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 15:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 15:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 15:29	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 15:29	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 15:29	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 15:29	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 15:29	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 15:29	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 15:29	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 15:29	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 15:29	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 15:29	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 15:29	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 15:29	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 15:29	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 15:29	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 15:29	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 15:29	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 15:29	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 15:29	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 15:29	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 15:29	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 15:29	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 15:29	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 15:29	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 15:29	1
Acetone	1.3	J	2.5	0.54	ug/L			08/06/13 15:29	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 15:29	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 15:29	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 15:29	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 15:29	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 15:29	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 15:29	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 15:29	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 15:29	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 15:29	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 15:29	1
Chloromethane	0.10	J	0.50	0.063	ug/L			08/06/13 15:29	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 15:29	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 15:29	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 15:29	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 15:29	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 15:29	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 15:29	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 15:29	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 15:29	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 15:29	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 15:29	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 235 Alston Avenue

Lab Sample ID: 480-43031-18

Date Collected: 07/31/13 13:05

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 15:29	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 15:29	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 15:29	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 15:29	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 15:29	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 15:29	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 15:29	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 15:29	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 15:29	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 15:29	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 15:29	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 15:29	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 15:29	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 15:29	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 15:29	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 15:29	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 15:29	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	100		80 - 120		08/06/13 15:29	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/06/13 15:29	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/05/13 19:22	08/07/13 06:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	85		70 - 130	08/05/13 19:22	08/07/13 06:32	1

Client Sample ID: 155 Meetinghouse Road

Lab Sample ID: 480-43031-20

Date Collected: 07/31/13 13:50

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 16:20	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 16:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 16:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 16:20	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 16:20	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 16:20	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 16:20	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 16:20	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 16:20	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 16:20	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 16:20	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 16:20	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 16:20	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 16:20	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 155 Meetinghouse Road

Lab Sample ID: 480-43031-20

Date Collected: 07/31/13 13:50

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 16:20	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 16:20	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 16:20	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 16:20	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 16:20	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 16:20	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 16:20	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 16:20	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 16:20	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 16:20	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 16:20	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 16:20	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 16:20	1
Acetone	1.3	J	2.5	0.54	ug/L			08/06/13 16:20	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 16:20	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 16:20	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 16:20	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 16:20	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 16:20	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 16:20	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 16:20	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 16:20	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 16:20	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 16:20	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 16:20	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 16:20	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 16:20	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 16:20	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 16:20	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 16:20	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 16:20	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 16:20	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 16:20	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 16:20	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 16:20	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 16:20	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 16:20	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 16:20	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 16:20	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 16:20	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 16:20	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 16:20	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 16:20	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 16:20	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 16:20	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 16:20	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 16:20	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 16:20	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 16:20	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 155 Meetinghouse Road

Lab Sample ID: 480-43031-20

Date Collected: 07/31/13 13:50

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 16:20	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 16:20	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 16:20	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 16:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120					08/06/13 16:20	1
4-Bromofluorobenzene (Surr)	99		80 - 120					08/06/13 16:20	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.46		0.20	0.040	ug/L		08/05/13 19:22	08/07/13 06:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	103		70 - 130				08/05/13 19:22	08/07/13 06:53	1

Client Sample ID: 30 Deepwood Drive

Lab Sample ID: 480-43031-22

Date Collected: 07/31/13 15:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 17:11	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 17:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 17:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 17:11	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 17:11	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 17:11	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 17:11	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 17:11	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 17:11	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 17:11	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 17:11	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 17:11	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 17:11	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 17:11	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 17:11	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 17:11	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 17:11	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 17:11	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 17:11	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 17:11	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 17:11	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 17:11	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 17:11	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 17:11	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 17:11	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 17:11	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 17:11	1
Acetone	0.57	J	2.5	0.54	ug/L			08/06/13 17:11	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 30 Deepwood Drive

Lab Sample ID: 480-43031-22

Date Collected: 07/31/13 15:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			08/06/13 17:11	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 17:11	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 17:11	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 17:11	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 17:11	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 17:11	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 17:11	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 17:11	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 17:11	1
Chloroform	0.32	J	0.50	0.14	ug/L			08/06/13 17:11	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 17:11	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 17:11	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 17:11	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 17:11	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 17:11	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 17:11	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 17:11	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 17:11	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 17:11	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 17:11	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 17:11	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 17:11	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 17:11	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 17:11	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 17:11	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 17:11	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 17:11	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 17:11	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 17:11	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 17:11	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 17:11	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 17:11	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 17:11	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 17:11	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 17:11	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 17:11	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 17:11	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 17:11	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		08/06/13 17:11	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/06/13 17:11	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.040	J	0.20	0.040	ug/L		08/05/13 19:22	08/07/13 07:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	97		70 - 130	08/05/13 19:22	08/07/13 07:18	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 325 Schoolhouse Road (RES-30) Raw Water

Lab Sample ID: 480-43031-24

Date Collected: 07/31/13 14:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 18:01	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 18:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 18:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 18:01	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 18:01	1
1,1-Dichloroethane	0.35	J	0.50	0.074	ug/L			08/06/13 18:01	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 18:01	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 18:01	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 18:01	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 18:01	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 18:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 18:01	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 18:01	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 18:01	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 18:01	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 18:01	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 18:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 18:01	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 18:01	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 18:01	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 18:01	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 18:01	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 18:01	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 18:01	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 18:01	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 18:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 18:01	1
Acetone	1.3	J	2.5	0.54	ug/L			08/06/13 18:01	1
Benzene	0.59		0.50	0.13	ug/L			08/06/13 18:01	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 18:01	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 18:01	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 18:01	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 18:01	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 18:01	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 18:01	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 18:01	1
Chloroethane	0.49	J	0.50	0.070	ug/L			08/06/13 18:01	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 18:01	1
Chloromethane	0.11	J	0.50	0.063	ug/L			08/06/13 18:01	1
cis-1,2-Dichloroethene	2.1		0.50	0.12	ug/L			08/06/13 18:01	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 18:01	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 18:01	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 18:01	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 18:01	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 18:01	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 18:01	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 18:01	1
Methyl tert-butyl ether	1.6		0.50	0.12	ug/L			08/06/13 18:01	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 18:01	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 325 Schoolhouse Road (RES-30) Raw Water

Lab Sample ID: 480-43031-24

Date Collected: 07/31/13 14:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 18:01	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 18:01	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 18:01	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 18:01	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 18:01	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 18:01	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 18:01	1
t-Butanol	8.3	J	10	2.5	ug/L			08/06/13 18:01	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 18:01	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 18:01	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 18:01	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 18:01	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 18:01	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 18:01	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 18:01	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 18:01	1
Vinyl chloride	0.22	J	0.50	0.059	ug/L			08/06/13 18:01	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/06/13 18:01	1
4-Bromofluorobenzene (Surr)	100		80 - 120		08/06/13 18:01	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	9.4		0.40	0.080	ug/L		08/05/13 19:22	08/07/13 17:24	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	77		70 - 130	08/05/13 19:22	08/07/13 17:24	2

Client Sample ID: 325 Schoolhouse Road (RES-30)

Lab Sample ID: 480-43031-26

Intermediate

Date Collected: 07/31/13 15:05

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 18:51	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 18:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 18:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 18:51	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 18:51	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 18:51	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 18:51	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 18:51	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 18:51	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 18:51	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 18:51	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 18:51	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 18:51	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 325 Schoolhouse Road (RES-30)

Lab Sample ID: 480-43031-26

Intermediate

Date Collected: 07/31/13 15:05

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 18:51	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 18:51	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 18:51	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 18:51	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 18:51	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 18:51	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 18:51	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 18:51	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 18:51	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 18:51	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 18:51	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 18:51	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 18:51	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 18:51	1
Acetone	ND		2.5	0.54	ug/L			08/06/13 18:51	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 18:51	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 18:51	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 18:51	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 18:51	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 18:51	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 18:51	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 18:51	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 18:51	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 18:51	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 18:51	1
Chloromethane	0.084	J	0.50	0.063	ug/L			08/06/13 18:51	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 18:51	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 18:51	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 18:51	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 18:51	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 18:51	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 18:51	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 18:51	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 18:51	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 18:51	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 18:51	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 18:51	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 18:51	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 18:51	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 18:51	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 18:51	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 18:51	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 18:51	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 18:51	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 18:51	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 18:51	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 18:51	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 18:51	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 325 Schoolhouse Road (RES-30)

Lab Sample ID: 480-43031-26

Intermediate

Date Collected: 07/31/13 15:05

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 18:51	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 18:51	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 18:51	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 18:51	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 18:51	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		08/06/13 18:51	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/06/13 18:51	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/05/13 19:22	08/07/13 08:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	100		70 - 130	08/05/13 19:22	08/07/13 08:27	1

Client Sample ID: 325 Schoolhouse Road (RES-30) Finish

Lab Sample ID: 480-43031-28

Water

Date Collected: 07/31/13 15:15

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 19:42	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 19:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 19:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 19:42	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 19:42	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 19:42	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 19:42	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 19:42	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 19:42	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 19:42	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 19:42	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 19:42	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 19:42	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 19:42	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 19:42	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 19:42	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 19:42	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 19:42	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 19:42	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 19:42	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 19:42	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 19:42	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 19:42	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 19:42	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 325 Schoolhouse Road (RES-30) Finish

Lab Sample ID: 480-43031-28

Water

Date Collected: 07/31/13 15:15

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 19:42	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 19:42	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 19:42	1
Acetone	ND		2.5	0.54	ug/L			08/06/13 19:42	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 19:42	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 19:42	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 19:42	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 19:42	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 19:42	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 19:42	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 19:42	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 19:42	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 19:42	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 19:42	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 19:42	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 19:42	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 19:42	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 19:42	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 19:42	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 19:42	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 19:42	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 19:42	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 19:42	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 19:42	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 19:42	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 19:42	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 19:42	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 19:42	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 19:42	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 19:42	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 19:42	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 19:42	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 19:42	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 19:42	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 19:42	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 19:42	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 19:42	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 19:42	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 19:42	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 19:42	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 19:42	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 19:42	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/06/13 19:42	1
4-Bromofluorobenzene (Surr)	102		80 - 120		08/06/13 19:42	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 325 Schoolhouse Road (RES-30) Finish

Lab Sample ID: 480-43031-28

Water

Date Collected: 07/31/13 15:15

Matrix: Water

Date Received: 08/02/13 02:30

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/05/13 19:22	08/07/13 08:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	91		70 - 130				08/05/13 19:22	08/07/13 08:48	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-43031-30

Date Collected: 07/30/13 16:30

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 20:32	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 20:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 20:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 20:32	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 20:32	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 20:32	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 20:32	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 20:32	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 20:32	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 20:32	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 20:32	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 20:32	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 20:32	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 20:32	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 20:32	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 20:32	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 20:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 20:32	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 20:32	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 20:32	1
1,4-Dichlorobenzene	0.13	J	0.50	0.13	ug/L			08/06/13 20:32	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 20:32	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 20:32	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 20:32	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 20:32	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 20:32	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 20:32	1
Acetone	5.6		2.5	0.54	ug/L			08/06/13 20:32	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 20:32	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 20:32	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 20:32	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 20:32	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 20:32	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 20:32	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 20:32	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 20:32	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 20:32	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 20:32	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-43031-30

Date Collected: 07/30/13 16:30

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 20:32	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 20:32	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 20:32	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 20:32	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 20:32	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 20:32	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 20:32	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 20:32	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 20:32	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 20:32	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 20:32	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 20:32	1
Naphthalene	0.30	J	0.50	0.060	ug/L			08/06/13 20:32	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 20:32	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 20:32	1
o-Xylene	0.059	J	0.50	0.044	ug/L			08/06/13 20:32	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 20:32	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 20:32	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 20:32	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 20:32	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 20:32	1
Toluene	0.11	J	0.50	0.10	ug/L			08/06/13 20:32	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 20:32	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 20:32	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 20:32	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 20:32	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 20:32	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 20:32	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/06/13 20:32	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/06/13 20:32	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/05/13 19:22	08/07/13 09:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	103		70 - 130	08/05/13 19:22	08/07/13 09:12	1

TestAmerica Buffalo

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)
480-43031-1	65 Piper Lane	102	101
480-43031-3	3 Sharon Circle	104	98
480-43031-5	200 Glacier Hills Road	104	98
480-43031-7	300 Glacier Hills	104	99
480-43031-9	35 Surrey Drive	103	99
480-43031-11	Trip Blank	102	98
480-43031-12	40 Chipman Street	103	99
480-43031-14	50 Starlight Lane	102	99
480-43031-16	440 Meetinghouse Road	101	99
480-43031-18	235 Alston Avenue	100	98
480-43031-20	155 Meetinghouse Road	102	99
480-43031-22	30 Deepwood Drive	103	101
480-43031-24	325 Schoolhouse Road (RES-30) R	102	100
480-43031-26	325 Schoolhouse Road (RES-30) In	103	98
480-43031-28	325 Schoolhouse Road (RES-30) Fi	102	102
480-43031-30	Trip Blank	102	101
LCS 480-132442/5	Lab Control Sample	104	98
LCS 480-132558/4	Lab Control Sample	101	101
LCSD 480-132442/7	Lab Control Sample Dup	100	99
MB 480-132442/6	Method Blank	102	100
MB 480-132558/5	Method Blank	104	102
Surrogate Legend			
12DCB = 1,2-Dichlorobenzene-d4			
BFB = 4-Bromofluorobenzene (Surr)			

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	14DD8 (70-130)	
480-43031-1	65 Piper Lane	109	
480-43031-3	3 Sharon Circle	106	
480-43031-5	200 Glacier Hills Road	88	
480-43031-7	300 Glacier Hills	101	
480-43031-9	35 Surrey Drive	106	
480-43031-11	Trip Blank	96	
480-43031-12	40 Chipman Street	108	
480-43031-14	50 Starlight Lane	99	
480-43031-16	440 Meetinghouse Road	102	
480-43031-18	235 Alston Avenue	85	
480-43031-20	155 Meetinghouse Road	103	
480-43031-22	30 Deepwood Drive	97	
480-43031-24	325 Schoolhouse Road (RES-30) R	77	
480-43031-26	325 Schoolhouse Road (RES-30) In	100	
480-43031-28	325 Schoolhouse Road (RES-30) Fi	91	
480-43031-30	Trip Blank	103	
LCS 200-59359/2-A	Lab Control Sample	91	

TestAmerica Buffalo

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	14DD8 (70-130)
MB 200-59359/1-A	Method Blank	88

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-132442/6

Matrix: Water

Analysis Batch: 132442

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 22:37	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 22:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 22:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 22:37	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 22:37	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/05/13 22:37	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 22:37	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 22:37	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 22:37	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 22:37	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 22:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 22:37	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 22:37	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 22:37	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 22:37	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 22:37	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 22:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 22:37	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 22:37	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 22:37	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 22:37	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 22:37	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 22:37	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 22:37	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 22:37	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 22:37	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 22:37	1
Acetone	ND		2.5	0.54	ug/L			08/05/13 22:37	1
Benzene	ND		0.50	0.13	ug/L			08/05/13 22:37	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 22:37	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 22:37	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 22:37	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 22:37	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 22:37	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 22:37	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 22:37	1
Chloroethane	ND		0.50	0.070	ug/L			08/05/13 22:37	1
Chloroform	ND		0.50	0.14	ug/L			08/05/13 22:37	1
Chloromethane	ND		0.50	0.063	ug/L			08/05/13 22:37	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/05/13 22:37	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 22:37	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 22:37	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 22:37	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 22:37	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 22:37	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 22:37	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 22:37	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/05/13 22:37	1

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-132442/6

Matrix: Water

Analysis Batch: 132442

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 22:37	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 22:37	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 22:37	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 22:37	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 22:37	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 22:37	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 22:37	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 22:37	1
t-Butanol	ND		10	2.5	ug/L			08/05/13 22:37	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 22:37	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 22:37	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 22:37	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 22:37	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 22:37	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 22:37	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 22:37	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 22:37	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 22:37	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 22:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/05/13 22:37	1
4-Bromofluorobenzene (Surr)	100		80 - 120		08/05/13 22:37	1

Lab Sample ID: LCS 480-132442/5

Matrix: Water

Analysis Batch: 132442

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.98		ug/L		99	70 - 130
1,1,1-Trichloroethane	4.00	4.01		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.45		ug/L		86	70 - 130
1,1,2-Trichloroethane	4.00	3.69		ug/L		92	70 - 130
1,1-Dichloroethane	4.00	3.81		ug/L		95	70 - 130
1,1-Dichloroethene	4.00	3.50		ug/L		87	70 - 130
1,1-Dichloropropene	4.00	4.11		ug/L		103	70 - 130
1,2,3-Trichlorobenzene	4.00	4.28		ug/L		107	70 - 130
1,2,3-Trichloropropane	4.00	3.66		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	4.00	4.24		ug/L		106	70 - 130
1,2,4-Trimethylbenzene	4.00	3.93		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.68		ug/L		92	70 - 130
1,2-Dibromoethane	4.00	3.80		ug/L		95	70 - 130
1,2-Dichlorobenzene	4.00	3.96		ug/L		99	70 - 130
1,2-Dichloroethane	4.00	3.90		ug/L		98	70 - 130
1,2-Dichloropropane	4.00	3.58		ug/L		90	70 - 130
1,3,5-Trimethylbenzene	4.00	3.89		ug/L		97	70 - 130
1,3-Dichlorobenzene	4.00	3.89		ug/L		97	70 - 130
1,3-Dichloropropane	4.00	3.77		ug/L		94	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-132442/5

Matrix: Water

Analysis Batch: 132442

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.82		ug/L		95	70 - 130
2,2-Dichloropropane	4.00	3.54		ug/L		89	70 - 130
2-Butanone (MEK)	20.0	18.5		ug/L		93	70 - 130
2-Chlorotoluene	4.00	3.77		ug/L		94	70 - 130
4-Chlorotoluene	4.00	3.75		ug/L		94	70 - 130
4-Isopropyltoluene	4.00	3.97		ug/L		99	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.1		ug/L		95	70 - 130
Acetone	20.0	18.2		ug/L		91	70 - 130
Benzene	4.00	3.90		ug/L		97	70 - 130
Bromobenzene	4.00	3.88		ug/L		97	70 - 130
Bromochloromethane	4.00	4.06		ug/L		101	70 - 130
Bromoform	4.00	3.51		ug/L		88	70 - 130
Bromomethane	4.00	4.61		ug/L		115	70 - 130
Carbon tetrachloride	4.00	4.13		ug/L		103	70 - 130
Chlorobenzene	4.00	3.92		ug/L		98	70 - 130
Chlorodibromomethane	4.00	3.60		ug/L		90	70 - 130
Chloroethane	4.00	4.31		ug/L		108	70 - 130
Chloroform	4.00	3.79		ug/L		95	70 - 130
Chloromethane	4.00	4.39		ug/L		110	70 - 130
cis-1,2-Dichloroethene	4.00	3.81		ug/L		95	70 - 130
cis-1,3-Dichloropropene	4.00	3.51		ug/L		88	70 - 130
Dibromomethane	4.00	3.87		ug/L		97	70 - 130
Dichlorobromomethane	4.00	3.65		ug/L		91	70 - 130
Dichlorodifluoromethane	4.00	5.17		ug/L		129	70 - 130
Ethylbenzene	4.00	3.88		ug/L		97	70 - 130
Hexachlorobutadiene	4.00	4.19		ug/L		105	70 - 130
Isopropylbenzene	4.00	4.00		ug/L		100	70 - 130
Methyl tert-butyl ether	4.00	3.86		ug/L		96	70 - 130
Methylene Chloride	4.00	3.67		ug/L		92	70 - 130
Naphthalene	4.00	4.08		ug/L		102	70 - 130
n-Butylbenzene	4.00	3.96		ug/L		99	70 - 130
N-Propylbenzene	4.00	3.85		ug/L		96	70 - 130
sec-Butylbenzene	4.00	3.95		ug/L		99	70 - 130
Styrene	4.00	3.91		ug/L		98	70 - 130
tert-Butylbenzene	4.00	3.96		ug/L		99	70 - 130
Tetrachloroethene	4.00	3.97		ug/L		99	70 - 130
Toluene	4.00	3.87		ug/L		97	70 - 130
trans-1,2-Dichloroethene	4.00	3.85		ug/L		96	70 - 130
trans-1,3-Dichloropropene	4.00	3.40		ug/L		85	70 - 130
Trichloroethene	4.00	3.93		ug/L		98	70 - 130
Trichlorofluoromethane	4.00	4.95		ug/L		124	70 - 130
Vinyl chloride	4.00	4.53		ug/L		113	70 - 130
Xylenes, Total	12.0	11.8		ug/L		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	104		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-132442/7

Matrix: Water

Analysis Batch: 132442

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.00	3.83		ug/L		96	70 - 130	4	20
1,1,1-Trichloroethane	4.00	3.88		ug/L		97	70 - 130	3	20
1,1,2,2-Tetrachloroethane	4.00	3.38		ug/L		84	70 - 130	2	20
1,1,2-Trichloroethane	4.00	3.54		ug/L		89	70 - 130	4	20
1,1-Dichloroethane	4.00	3.58		ug/L		90	70 - 130	6	20
1,1-Dichloroethene	4.00	3.32		ug/L		83	70 - 130	5	20
1,1-Dichloropropene	4.00	4.01		ug/L		100	70 - 130	3	20
1,2,3-Trichlorobenzene	4.00	4.05		ug/L		101	70 - 130	5	20
1,2,3-Trichloropropane	4.00	3.83		ug/L		96	70 - 130	4	20
1,2,4-Trichlorobenzene	4.00	3.94		ug/L		98	70 - 130	7	20
1,2,4-Trimethylbenzene	4.00	3.80		ug/L		95	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	4.00	3.46		ug/L		86	70 - 130	6	20
1,2-Dibromoethane	4.00	3.71		ug/L		93	70 - 130	3	20
1,2-Dichlorobenzene	4.00	3.79		ug/L		95	70 - 130	5	20
1,2-Dichloroethane	4.00	3.83		ug/L		96	70 - 130	2	20
1,2-Dichloropropane	4.00	3.46		ug/L		87	70 - 130	3	20
1,3,5-Trimethylbenzene	4.00	3.73		ug/L		93	70 - 130	4	20
1,3-Dichlorobenzene	4.00	3.79		ug/L		95	70 - 130	3	20
1,3-Dichloropropane	4.00	3.72		ug/L		93	70 - 130	1	20
1,4-Dichlorobenzene	4.00	3.68		ug/L		92	70 - 130	4	20
2,2-Dichloropropane	4.00	3.35		ug/L		84	70 - 130	5	20
2-Butanone (MEK)	20.0	17.4		ug/L		87	70 - 130	6	20
2-Chlorotoluene	4.00	3.66		ug/L		91	70 - 130	3	20
4-Chlorotoluene	4.00	3.62		ug/L		91	70 - 130	4	20
4-Isopropyltoluene	4.00	3.78		ug/L		95	70 - 130	5	20
4-Methyl-2-pentanone (MIBK)	20.0	18.2		ug/L		91	70 - 130	5	20
Acetone	20.0	17.5		ug/L		88	70 - 130	4	20
Benzene	4.00	3.72		ug/L		93	70 - 130	5	20
Bromobenzene	4.00	3.80		ug/L		95	70 - 130	2	20
Bromochloromethane	4.00	3.96		ug/L		99	70 - 130	2	20
Bromoform	4.00	3.45		ug/L		86	70 - 130	2	20
Bromomethane	4.00	4.53		ug/L		113	70 - 130	2	20
Carbon tetrachloride	4.00	4.04		ug/L		101	70 - 130	2	20
Chlorobenzene	4.00	3.80		ug/L		95	70 - 130	3	20
Chlorodibromomethane	4.00	3.48		ug/L		87	70 - 130	3	20
Chloroethane	4.00	4.09		ug/L		102	70 - 130	5	20
Chloroform	4.00	3.76		ug/L		94	70 - 130	1	20
Chloromethane	4.00	3.97		ug/L		99	70 - 130	10	20
cis-1,2-Dichloroethene	4.00	3.69		ug/L		92	70 - 130	3	20
cis-1,3-Dichloropropene	4.00	3.44		ug/L		86	70 - 130	2	20
Dibromomethane	4.00	3.77		ug/L		94	70 - 130	3	20
Dichlorobromomethane	4.00	3.52		ug/L		88	70 - 130	4	20
Dichlorodifluoromethane	4.00	4.86		ug/L		121	70 - 130	6	20
Ethylbenzene	4.00	3.73		ug/L		93	70 - 130	4	20
Hexachlorobutadiene	4.00	4.05		ug/L		101	70 - 130	3	20
Isopropylbenzene	4.00	3.92		ug/L		98	70 - 130	2	20
Methyl tert-butyl ether	4.00	3.68		ug/L		92	70 - 130	5	20
Methylene Chloride	4.00	3.56		ug/L		89	70 - 130	3	20

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-132442/7

Matrix: Water

Analysis Batch: 132442

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	4.00	3.93		ug/L		98	70 - 130	4	20
n-Butylbenzene	4.00	3.80		ug/L		95	70 - 130	4	20
N-Propylbenzene	4.00	3.71		ug/L		93	70 - 130	4	20
sec-Butylbenzene	4.00	3.78		ug/L		94	70 - 130	5	20
Styrene	4.00	3.81		ug/L		95	70 - 130	3	20
tert-Butylbenzene	4.00	3.83		ug/L		96	70 - 130	3	20
Tetrachloroethene	4.00	3.91		ug/L		98	70 - 130	1	20
Toluene	4.00	3.80		ug/L		95	70 - 130	2	20
trans-1,2-Dichloroethene	4.00	3.67		ug/L		92	70 - 130	5	20
trans-1,3-Dichloropropene	4.00	3.30		ug/L		83	70 - 130	3	20
Trichloroethene	4.00	3.80		ug/L		95	70 - 130	4	20
Trichlorofluoromethane	4.00	4.59		ug/L		115	70 - 130	7	20
Vinyl chloride	4.00	4.35		ug/L		109	70 - 130	4	20
Xylenes, Total	12.0	11.5		ug/L		95	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichlorobenzene-d4	100		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120

Lab Sample ID: MB 480-132558/5

Matrix: Water

Analysis Batch: 132558

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 13:16	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 13:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 13:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 13:16	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 13:16	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 13:16	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 13:16	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 13:16	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 13:16	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 13:16	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 13:16	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 13:16	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 13:16	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 13:16	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 13:16	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 13:16	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 13:16	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 13:16	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 13:16	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 13:16	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 13:16	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 13:16	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 13:16	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 13:16	1

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-132558/5

Matrix: Water

Analysis Batch: 132558

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 13:16	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 13:16	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 13:16	1
Acetone	ND		2.5	0.54	ug/L			08/06/13 13:16	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 13:16	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 13:16	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 13:16	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 13:16	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 13:16	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 13:16	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 13:16	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 13:16	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 13:16	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 13:16	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 13:16	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 13:16	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 13:16	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 13:16	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 13:16	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 13:16	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 13:16	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 13:16	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 13:16	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 13:16	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 13:16	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 13:16	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 13:16	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 13:16	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 13:16	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 13:16	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 13:16	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 13:16	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 13:16	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 13:16	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 13:16	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 13:16	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 13:16	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 13:16	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 13:16	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 13:16	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 13:16	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 13:16	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 13:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		08/06/13 13:16	1
4-Bromofluorobenzene (Surr)	102		80 - 120		08/06/13 13:16	1

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-132558/4

Matrix: Water

Analysis Batch: 132558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.01		ug/L		100	70 - 130
1,1,1-Trichloroethane	4.00	4.06		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.41		ug/L		85	70 - 130
1,1,2-Trichloroethane	4.00	3.64		ug/L		91	70 - 130
1,1-Dichloroethane	4.00	3.79		ug/L		95	70 - 130
1,1-Dichloroethene	4.00	3.35		ug/L		84	70 - 130
1,1-Dichloropropene	4.00	4.10		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	4.00	4.18		ug/L		105	70 - 130
1,2,3-Trichloropropane	4.00	3.87		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	4.00	4.08		ug/L		102	70 - 130
1,2,4-Trimethylbenzene	4.00	3.97		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.56		ug/L		89	70 - 130
1,2-Dibromoethane	4.00	3.82		ug/L		96	70 - 130
1,2-Dichlorobenzene	4.00	3.92		ug/L		98	70 - 130
1,2-Dichloroethane	4.00	4.14		ug/L		103	70 - 130
1,2-Dichloropropane	4.00	3.57		ug/L		89	70 - 130
1,3,5-Trimethylbenzene	4.00	3.88		ug/L		97	70 - 130
1,3-Dichlorobenzene	4.00	3.88		ug/L		97	70 - 130
1,3-Dichloropropane	4.00	3.75		ug/L		94	70 - 130
1,4-Dichlorobenzene	4.00	3.82		ug/L		95	70 - 130
2,2-Dichloropropane	4.00	3.27		ug/L		82	70 - 130
2-Butanone (MEK)	20.0	17.4		ug/L		87	70 - 130
2-Chlorotoluene	4.00	3.84		ug/L		96	70 - 130
4-Chlorotoluene	4.00	3.78		ug/L		94	70 - 130
4-Isopropyltoluene	4.00	3.83		ug/L		96	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.1		ug/L		90	70 - 130
Acetone	20.0	18.6		ug/L		93	70 - 130
Benzene	4.00	3.88		ug/L		97	70 - 130
Bromobenzene	4.00	3.86		ug/L		97	70 - 130
Bromochloromethane	4.00	4.06		ug/L		102	70 - 130
Bromoform	4.00	3.38		ug/L		84	70 - 130
Bromomethane	4.00	4.38		ug/L		110	70 - 130
Carbon tetrachloride	4.00	4.14		ug/L		103	70 - 130
Chlorobenzene	4.00	3.92		ug/L		98	70 - 130
Chlorodibromomethane	4.00	3.60		ug/L		90	70 - 130
Chloroethane	4.00	3.95		ug/L		99	70 - 130
Chloroform	4.00	4.03		ug/L		101	70 - 130
Chloromethane	4.00	3.81		ug/L		95	70 - 130
cis-1,2-Dichloroethene	4.00	3.85		ug/L		96	70 - 130
cis-1,3-Dichloropropene	4.00	3.53		ug/L		88	70 - 130
Dibromomethane	4.00	3.88		ug/L		97	70 - 130
Dichlorobromomethane	4.00	3.83		ug/L		96	70 - 130
Dichlorodifluoromethane	4.00	4.78		ug/L		119	70 - 130
Ethylbenzene	4.00	3.83		ug/L		96	70 - 130
Hexachlorobutadiene	4.00	3.84		ug/L		96	70 - 130
Isopropylbenzene	4.00	3.98		ug/L		99	70 - 130
Methyl tert-butyl ether	4.00	3.85		ug/L		96	70 - 130
Methylene Chloride	4.00	3.70		ug/L		92	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-132558/4

Matrix: Water

Analysis Batch: 132558

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	4.00	4.04		ug/L		101	70 - 130
n-Butylbenzene	4.00	3.76		ug/L		94	70 - 130
N-Propylbenzene	4.00	3.73		ug/L		93	70 - 130
sec-Butylbenzene	4.00	3.75		ug/L		94	70 - 130
Styrene	4.00	3.88		ug/L		97	70 - 130
tert-Butylbenzene	4.00	3.87		ug/L		97	70 - 130
Tetrachloroethene	4.00	3.82		ug/L		96	70 - 130
Toluene	4.00	3.88		ug/L		97	70 - 130
trans-1,2-Dichloroethene	4.00	3.82		ug/L		96	70 - 130
trans-1,3-Dichloropropene	4.00	3.45		ug/L		86	70 - 130
Trichloroethene	4.00	3.83		ug/L		96	70 - 130
Trichlorofluoromethane	4.00	4.77		ug/L		119	70 - 130
Vinyl chloride	4.00	4.20		ug/L		105	70 - 130
Xylenes, Total	12.0	11.8		ug/L		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	101		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-59359/1-A

Matrix: Water

Analysis Batch: 59370

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59359

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/05/13 19:22	08/07/13 02:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	88		70 - 130	08/05/13 19:22	08/07/13 02:18	1

Lab Sample ID: LCS 200-59359/2-A

Matrix: Water

Analysis Batch: 59370

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59359

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.200	0.239		ug/L		119	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,4-Dioxane-d8 (Surr)	91		70 - 130

TestAmerica Buffalo

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

GC/MS VOA

Analysis Batch: 132442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-43031-1	65 Piper Lane	Total/NA	Water	524.2	
480-43031-3	3 Sharon Circle	Total/NA	Water	524.2	
480-43031-5	200 Glacier Hills Road	Total/NA	Water	524.2	
480-43031-7	300 Glacier Hills	Total/NA	Water	524.2	
480-43031-9	35 Surrey Drive	Total/NA	Water	524.2	
480-43031-11	Trip Blank	Total/NA	Water	524.2	
480-43031-12	40 Chipman Street	Total/NA	Water	524.2	
LCS 480-132442/5	Lab Control Sample	Total/NA	Water	524.2	
LCSD 480-132442/7	Lab Control Sample Dup	Total/NA	Water	524.2	
MB 480-132442/6	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 132558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-43031-14	50 Starlight Lane	Total/NA	Water	524.2	
480-43031-16	440 Meetinghouse Road	Total/NA	Water	524.2	
480-43031-18	235 Alston Avenue	Total/NA	Water	524.2	
480-43031-20	155 Meetinghouse Road	Total/NA	Water	524.2	
480-43031-22	30 Deepwood Drive	Total/NA	Water	524.2	
480-43031-24	325 Schoolhouse Road (RES-30) Raw Water	Total/NA	Water	524.2	
480-43031-26	325 Schoolhouse Road (RES-30) Intermediate	Total/NA	Water	524.2	
480-43031-28	325 Schoolhouse Road (RES-30) Finish Water	Total/NA	Water	524.2	
480-43031-30	Trip Blank	Total/NA	Water	524.2	
LCS 480-132558/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-132558/5	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 59359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-43031-1	65 Piper Lane	Total/NA	Water	3535A	
480-43031-3	3 Sharon Circle	Total/NA	Water	3535A	
480-43031-5	200 Glacier Hills Road	Total/NA	Water	3535A	
480-43031-7	300 Glacier Hills	Total/NA	Water	3535A	
480-43031-9	35 Surrey Drive	Total/NA	Water	3535A	
480-43031-11	Trip Blank	Total/NA	Water	3535A	
480-43031-12	40 Chipman Street	Total/NA	Water	3535A	
480-43031-14	50 Starlight Lane	Total/NA	Water	3535A	
480-43031-16	440 Meetinghouse Road	Total/NA	Water	3535A	
480-43031-18	235 Alston Avenue	Total/NA	Water	3535A	
480-43031-20	155 Meetinghouse Road	Total/NA	Water	3535A	
480-43031-22	30 Deepwood Drive	Total/NA	Water	3535A	
480-43031-24	325 Schoolhouse Road (RES-30) Raw Water	Total/NA	Water	3535A	
480-43031-26	325 Schoolhouse Road (RES-30) Intermediate	Total/NA	Water	3535A	
480-43031-28	325 Schoolhouse Road (RES-30) Finish Water	Total/NA	Water	3535A	
480-43031-30	Trip Blank	Total/NA	Water	3535A	
LCS 200-59359/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-59359/1-A	Method Blank	Total/NA	Water	3535A	

TestAmerica Buffalo

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

GC/MS Semi VOA (Continued)

Analysis Batch: 59370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-43031-1	65 Piper Lane	Total/NA	Water	522 MOD	59359
480-43031-3	3 Sharon Circle	Total/NA	Water	522 MOD	59359
480-43031-5	200 Glacier Hills Road	Total/NA	Water	522 MOD	59359
480-43031-7	300 Glacier Hills	Total/NA	Water	522 MOD	59359
480-43031-9	35 Surrey Drive	Total/NA	Water	522 MOD	59359
480-43031-11	Trip Blank	Total/NA	Water	522 MOD	59359
480-43031-12	40 Chipman Street	Total/NA	Water	522 MOD	59359
480-43031-14	50 Starlight Lane	Total/NA	Water	522 MOD	59359
480-43031-16	440 Meetinghouse Road	Total/NA	Water	522 MOD	59359
480-43031-18	235 Alston Avenue	Total/NA	Water	522 MOD	59359
480-43031-20	155 Meetinghouse Road	Total/NA	Water	522 MOD	59359
480-43031-22	30 Deepwood Drive	Total/NA	Water	522 MOD	59359
480-43031-24	325 Schoolhouse Road (RES-30) Raw Water	Total/NA	Water	522 MOD	59359
480-43031-26	325 Schoolhouse Road (RES-30) Intermediate	Total/NA	Water	522 MOD	59359
480-43031-28	325 Schoolhouse Road (RES-30) Finish Water	Total/NA	Water	522 MOD	59359
480-43031-30	Trip Blank	Total/NA	Water	522 MOD	59359
LCS 200-59359/2-A	Lab Control Sample	Total/NA	Water	522 MOD	59359
MB 200-59359/1-A	Method Blank	Total/NA	Water	522 MOD	59359

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 65 Piper Lane

Date Collected: 07/31/13 10:00

Date Received: 08/02/13 02:30

Lab Sample ID: 480-43031-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132442	08/05/13 23:42	TRB	TAL BUF
Total/NA	Prep	3535A			59359	08/05/13 19:22	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/07/13 02:41	RJH	TAL BUR

Client Sample ID: 3 Sharon Circle

Date Collected: 07/31/13 10:50

Date Received: 08/02/13 02:30

Lab Sample ID: 480-43031-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132442	08/06/13 00:34	TRB	TAL BUF
Total/NA	Prep	3535A			59359	08/05/13 19:22	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/07/13 03:04	RJH	TAL BUR

Client Sample ID: 200 Glacier Hills Road

Date Collected: 07/31/13 11:20

Date Received: 08/02/13 02:30

Lab Sample ID: 480-43031-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132442	08/06/13 01:25	TRB	TAL BUF
Total/NA	Prep	3535A			59359	08/05/13 19:22	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/07/13 03:28	RJH	TAL BUR

Client Sample ID: 300 Glacier Hills

Date Collected: 07/31/13 12:10

Date Received: 08/02/13 02:30

Lab Sample ID: 480-43031-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132442	08/06/13 02:15	TRB	TAL BUF
Total/NA	Prep	3535A			59359	08/05/13 19:22	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/07/13 04:14	RJH	TAL BUR

Client Sample ID: 35 Surrey Drive

Date Collected: 07/31/13 13:05

Date Received: 08/02/13 02:30

Lab Sample ID: 480-43031-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132442	08/06/13 03:05	TRB	TAL BUF
Total/NA	Prep	3535A			59359	08/05/13 19:22	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/07/13 04:36	RJH	TAL BUR

TestAmerica Buffalo

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-43031-11

Date Collected: 07/31/13 08:15

Matrix: Water

Date Received: 08/02/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132442	08/06/13 03:56	TRB	TAL BUF
Total/NA	Prep	3535A			59359	08/05/13 19:22	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/07/13 05:00	RJH	TAL BUR

Client Sample ID: 40 Chipman Street

Lab Sample ID: 480-43031-12

Date Collected: 07/31/13 09:55

Matrix: Water

Date Received: 08/02/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132442	08/06/13 04:21	TRB	TAL BUF
Total/NA	Prep	3535A			59359	08/05/13 19:22	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/07/13 05:21	RJH	TAL BUR

Client Sample ID: 50 Starlight Lane

Lab Sample ID: 480-43031-14

Date Collected: 07/31/13 11:15

Matrix: Water

Date Received: 08/02/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132558	08/06/13 13:47	TRB	TAL BUF
Total/NA	Prep	3535A			59359	08/05/13 19:22	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/07/13 05:45	RJH	TAL BUR

Client Sample ID: 440 Meetinghouse Road

Lab Sample ID: 480-43031-16

Date Collected: 07/31/13 11:55

Matrix: Water

Date Received: 08/02/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132558	08/06/13 14:38	TRB	TAL BUF
Total/NA	Prep	3535A			59359	08/05/13 19:22	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/07/13 06:07	RJH	TAL BUR

Client Sample ID: 235 Alston Avenue

Lab Sample ID: 480-43031-18

Date Collected: 07/31/13 13:05

Matrix: Water

Date Received: 08/02/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132558	08/06/13 15:29	TRB	TAL BUF
Total/NA	Prep	3535A			59359	08/05/13 19:22	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/07/13 06:32	RJH	TAL BUR

TestAmerica Buffalo

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 155 Meetinghouse Road

Lab Sample ID: 480-43031-20

Date Collected: 07/31/13 13:50

Matrix: Water

Date Received: 08/02/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132558	08/06/13 16:20	TRB	TAL BUF
Total/NA	Prep	3535A			59359	08/05/13 19:22	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/07/13 06:53	RJH	TAL BUR

Client Sample ID: 30 Deepwood Drive

Lab Sample ID: 480-43031-22

Date Collected: 07/31/13 15:55

Matrix: Water

Date Received: 08/02/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132558	08/06/13 17:11	TRB	TAL BUF
Total/NA	Prep	3535A			59359	08/05/13 19:22	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/07/13 07:18	RJH	TAL BUR

Client Sample ID: 325 Schoolhouse Road (RES-30) Raw Water

Lab Sample ID: 480-43031-24

Date Collected: 07/31/13 14:55

Matrix: Water

Date Received: 08/02/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132558	08/06/13 18:01	TRB	TAL BUF
Total/NA	Prep	3535A			59359	08/05/13 19:22	TPB	TAL BUR
Total/NA	Analysis	522 MOD		2	59370	08/07/13 17:24	RJH	TAL BUR

Client Sample ID: 325 Schoolhouse Road (RES-30) Intermediate

Lab Sample ID: 480-43031-26

Intermediate

Date Collected: 07/31/13 15:05

Matrix: Water

Date Received: 08/02/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132558	08/06/13 18:51	TRB	TAL BUF
Total/NA	Prep	3535A			59359	08/05/13 19:22	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/07/13 08:27	RJH	TAL BUR

Client Sample ID: 325 Schoolhouse Road (RES-30) Finish Water

Lab Sample ID: 480-43031-28

Date Collected: 07/31/13 15:15

Matrix: Water

Date Received: 08/02/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132558	08/06/13 19:42	TRB	TAL BUF
Total/NA	Prep	3535A			59359	08/05/13 19:22	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/07/13 08:48	RJH	TAL BUR

TestAmerica Buffalo

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: Trip Blank
Date Collected: 07/30/13 16:30
Date Received: 08/02/13 02:30

Lab Sample ID: 480-43031-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132558	08/06/13 20:32	TRB	TAL BUF
Total/NA	Prep	3535A			59359	08/05/13 19:22	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59370	08/07/13 09:12	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13 *
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13 *

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-43031-1	65 Piper Lane	Water	07/31/13 10:00	08/02/13 02:30
480-43031-3	3 Sharon Circle	Water	07/31/13 10:50	08/02/13 02:30
480-43031-5	200 Glacier Hills Road	Water	07/31/13 11:20	08/02/13 02:30
480-43031-7	300 Glacier Hills	Water	07/31/13 12:10	08/02/13 02:30
480-43031-9	35 Surrey Drive	Water	07/31/13 13:05	08/02/13 02:30
480-43031-11	Trip Blank	Water	07/31/13 08:15	08/02/13 02:30
480-43031-12	40 Chipman Street	Water	07/31/13 09:55	08/02/13 02:30
480-43031-14	50 Starlight Lane	Water	07/31/13 11:15	08/02/13 02:30
480-43031-16	440 Meetinghouse Road	Water	07/31/13 11:55	08/02/13 02:30
480-43031-18	235 Alston Avenue	Water	07/31/13 13:05	08/02/13 02:30
480-43031-20	155 Meetinghouse Road	Water	07/31/13 13:50	08/02/13 02:30
480-43031-22	30 Deepwood Drive	Water	07/31/13 15:55	08/02/13 02:30
480-43031-24	325 Schoolhouse Road (RES-30) Raw Water	Water	07/31/13 14:55	08/02/13 02:30
480-43031-26	325 Schoolhouse Road (RES-30) Intermediate	Water	07/31/13 15:05	08/02/13 02:30
480-43031-28	325 Schoolhouse Road (RES-30) Finish Water	Water	07/31/13 15:15	08/02/13 02:30
480-43031-30	Trip Blank	Water	07/30/13 16:30	08/02/13 02:30

Chain of Custody Record

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: MA MCP

Client Contact		Project Manager: David Bennett		Site Contact:		Date:	
Bennett Environmental Associates, Inc.		Tel/Fax: 508-896-1706		Lab Contact:		Carrier:	
Address: 1573 Main St. / P.O. Box 1743		Analysis Turnaround Time		Filtered Sample (Y/N)		COC No:	
City/State/Zip: Brewster, MA 02631		Calendar (C) or Work Days (W) C		Composite = C / Grab = G		1 of 3 COCs	
Phone: 508-896-1706		TAT if different from Below		1,4-Dioxane via 522.1 Mod		For Lab Use Only:	
FAX: 508-896-5109		☒ 2 weeks		VOCs via 524.2		Walk-in Client:	
Project Name: Eastham Landfill		☐ 1 week				Lab Sampling:	
Site: Town of Eastham		☐ 2 days				Job / SDG No.: BEA11-10104	
P O #: BEA09-10104		☐ 1 day				Sampler: LAM/LKM (BCDHE)	
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes:
65 Piper Lane	7/31/2013	10:00 am	G	W	5		
65 Piper Lane Duplicate	7/31/2013	10:00 am	G	W	4		
3 Sharon Circle	7/31/2013	10:50 am	G	W	5		
3 Sharon Circle Duplicate	7/31/2013	10:50 am	G	W	4		
200 Glacier Hills Road	7/31/2013	11:20 am	G	W	5		
200 Glacier Hills Road Duplicate	7/31/2013	11:20 am	G	W	4		
300 Glacier Hills Road	7/31/2013	12:10 pm	G	W	5		
300 Glacier Hills Road Duplicate	7/31/2013	12:10 pm	G	W	4		
35 Surrey Drive	7/31/2013	1:05 pm	G	W	5		
35 Surrey Drive Duplicate	7/31/2013	1:05 pm	G	W	4		
Trip Blank	7/31/2013	8:15 am	G	W	4		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other		1,2,1,2					
Possible Hazard Identification:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant		☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months					

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com		2.8, 2.0 #1			
Relinquished by:	Company: BEA	Date/Time: 7/31/13 5:00	Received by: Sample for use	Company:	Date/Time:
Relinquished by: [Signature]	Company: BEA	Date/Time: 8/13/13 11:00	Received by: [Signature]	Company: T.A.	Date/Time: 8-13 1100
Relinquished by: [Signature]	Company:	Date/Time: 8/13/13 1415	Received in Laboratory by: [Signature]	Company: T.A.	Date/Time: 8-2-13 0230

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: MA MCP

Client Contact Bennett Environmental Associates, Inc. Address: 1573 Main St. / P.O. Box 1743 City/State/Zip: Brewster, MA 02631 Phone: 508-896-1706 FAX: 508-896-5109 Project Name: Eastham Landfill Site: Town of Eastham P O #: BEA09-10104		Project Manager: David Bennett Tel/Fax: 508-896-1706 Analysis Turnaround Time Calendar (C) or Work Days (W) <u>C</u> TAT if different from Below _____ ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Site Contact: Lab Contact: _____ Date: _____ Carrier: _____		COC No: 2 of 3 COCs For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: BEA11-10104 Sampler: JTW (BEA)	

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y/N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
40 Chipman Street	7/31/2013	9:55 am	G	W	5	N	G	3	2	
40 Chipman Street Duplicate	7/31/2013	9:55 am	G	W	4	N	G	3	1	
50 Starlight Lane	7/31/2013	11:15 am	G	W	5	N	G	3	2	
50 Starlight Lane Duplicate	7/31/2013	11:15 am	G	W	4	N	G	3	1	
440 Meetinghouse Road	7/31/2013	11:55 am	G	W	5	N	G	3	2	
440 Meetinghouse Road Duplicate	7/31/2013	11:55 am	G	W	4	N	G	3	1	
235 Alston Avenue	7/31/2013	1:05 pm	G	W	5	N	G	3	2	
235 Alston Avenue Duplicate	7/31/2013	1:05 pm	G	W	4	N	G	3	1	
155 Meetinghouse Road	7/31/2013	1:50 pm	G	W	5	N	G	3	2	
155 Meetinghouse Road Duplicate	7/31/2013	1:50 pm	G	W	4	N	G	3	1	
30 Deepwood Drive	7/31/2013	3:55 pm	G	W	5	N	G	3	2	
30 Deepwood Drive Duplicate	7/31/2013	3:55 pm	G	W	4	N	G	3	1	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____
Possible-Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

Relinquished by:	Company: BEA	Date/Time: 7/31/13 5:00	Received by: DEEA Sample Pick	Company: _____	Date/Time: _____
Relinquished by:	Company: DEEA	Date/Time: 8-13-13 11:00	Received by:	Company: T-A	Date/Time: 8-1-13 11:00
Relinquished by:	Company: _____	Date/Time: 8-13-13 14:45	Received in Laboratory by:	Company: T-A	Date/Time: 8-2-13 02:30

2-8, 2.0 #1

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: **MA MCP**

TestAmerica Laboratories, Inc.

[illegible]

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-43031-1

Login Number: 43031

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	False	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-43031-1

Login Number: 43031

List Source: TestAmerica Burlington

List Number: 1

List Creation: 08/04/13 12:14 PM

Creator: Marion, Greg T

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	957403,402,401
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8,3.0,3.6°C IR GUN ID 181/CF=-0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	Preservation labels on samples match COC
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-43031-1

Login Number: 43031

List Number: 2

Creator: Marion, Greg T

List Source: TestAmerica Burlington

List Creation: 08/04/13 12:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	957403,402,401
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8,3.0,3.6°C IR GUN ID 181/CF=-0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	Preservation labels on samples match COC
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-43031-2

Client Project/Site: Eastham Landfill IRA

For:

Bennett Environmental Associates, Inc.

1573 Main St.

Brewster, Massachusetts 02631

Attn: David Bennett



Authorized for release by:

8/16/2013 3:36:20 PM

Steve Hartmann, Lab Director

steve.hartmann@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

Job ID: 480-43031-2

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-43031-2

Comments

This is a stand alone report for Samples 155 Meetinghouse Road duplicate (480-43031-21) and 325 Schoolhouse Road (RES-30) Raw Water duplicate (480-43031-25) that were activated for analysis on 8/9/13. This analysis was originally on hold per client request.

Receipt

The samples were received on 8/2/2013 2:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.0° C and 2.8° C.

GC/MS VOA (524)

No analytical or quality issues were noted.

GC/MS Semi VOA (522)

No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

Client Sample ID: 155 Meetinghouse Road Duplicate

Lab Sample ID: 480-43031-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.62	J	2.5	0.54	ug/L	1			524.2	Total/NA
1,4-Dioxane	0.35		0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample ID: 325 Schoolhouse Road (RES-30) Raw Water Duplicate

Lab Sample ID: 480-43031-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1-Dichloroethane	0.38	J	0.50	0.074	ug/L	1			524.2	Total/NA
Acetone	1.0	J	2.5	0.54	ug/L	1			524.2	Total/NA
Benzene	0.60		0.50	0.13	ug/L	1			524.2	Total/NA
Chloroethane	0.51		0.50	0.070	ug/L	1			524.2	Total/NA
cis-1,2-Dichloroethene	2.2		0.50	0.12	ug/L	1			524.2	Total/NA
Methyl tert-butyl ether	1.6		0.50	0.12	ug/L	1			524.2	Total/NA
t-Butanol	8.4	J	10	2.5	ug/L	1			524.2	Total/NA
Vinyl chloride	0.22	J	0.50	0.059	ug/L	1			524.2	Total/NA
1,4-Dioxane	8.8		0.40	0.080	ug/L	2			522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

Client Sample ID: 155 Meetinghouse Road Duplicate

Lab Sample ID: 480-43031-21

Date Collected: 07/31/13 13:50

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 16:46	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 16:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 16:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 16:46	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 16:46	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 16:46	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 16:46	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 16:46	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 16:46	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 16:46	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 16:46	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 16:46	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 16:46	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 16:46	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 16:46	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 16:46	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 16:46	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 16:46	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 16:46	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 16:46	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 16:46	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 16:46	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 16:46	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 16:46	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 16:46	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 16:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 16:46	1
Acetone	0.62	J	2.5	0.54	ug/L			08/06/13 16:46	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 16:46	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 16:46	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 16:46	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 16:46	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 16:46	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 16:46	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 16:46	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 16:46	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 16:46	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 16:46	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 16:46	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 16:46	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 16:46	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 16:46	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 16:46	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 16:46	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 16:46	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 16:46	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 16:46	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 16:46	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 16:46	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

Client Sample ID: 155 Meetinghouse Road Duplicate

Lab Sample ID: 480-43031-21

Date Collected: 07/31/13 13:50

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 16:46	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 16:46	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 16:46	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 16:46	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 16:46	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 16:46	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 16:46	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 16:46	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 16:46	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 16:46	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 16:46	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 16:46	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 16:46	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 16:46	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 16:46	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 16:46	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 16:46	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/06/13 16:46	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/06/13 16:46	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.35		0.20	0.040	ug/L		08/09/13 22:31	08/13/13 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	81		70 - 130	08/09/13 22:31	08/13/13 16:09	1

Client Sample ID: 325 Schoolhouse Road (RES-30) Raw Water

Lab Sample ID: 480-43031-25

Duplicate

Date Collected: 07/31/13 14:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 18:26	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 18:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 18:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 18:26	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 18:26	1
1,1-Dichloroethane	0.38	J	0.50	0.074	ug/L			08/06/13 18:26	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 18:26	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 18:26	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 18:26	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 18:26	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 18:26	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 18:26	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 18:26	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

Client Sample ID: 325 Schoolhouse Road (RES-30) Raw Water

Lab Sample ID: 480-43031-25

Duplicate

Date Collected: 07/31/13 14:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 18:26	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 18:26	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 18:26	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 18:26	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 18:26	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 18:26	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 18:26	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 18:26	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 18:26	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 18:26	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 18:26	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 18:26	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 18:26	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 18:26	1
Acetone	1.0	J	2.5	0.54	ug/L			08/06/13 18:26	1
Benzene	0.60		0.50	0.13	ug/L			08/06/13 18:26	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 18:26	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 18:26	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 18:26	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 18:26	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 18:26	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 18:26	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 18:26	1
Chloroethane	0.51		0.50	0.070	ug/L			08/06/13 18:26	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 18:26	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 18:26	1
cis-1,2-Dichloroethene	2.2		0.50	0.12	ug/L			08/06/13 18:26	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 18:26	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 18:26	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 18:26	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 18:26	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 18:26	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 18:26	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 18:26	1
Methyl tert-butyl ether	1.6		0.50	0.12	ug/L			08/06/13 18:26	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 18:26	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 18:26	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 18:26	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 18:26	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 18:26	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 18:26	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 18:26	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 18:26	1
t-Butanol	8.4	J	10	2.5	ug/L			08/06/13 18:26	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 18:26	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 18:26	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 18:26	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 18:26	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

Client Sample ID: 325 Schoolhouse Road (RES-30) Raw Water

Lab Sample ID: 480-43031-25

Duplicate

Date Collected: 07/31/13 14:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 18:26	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 18:26	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 18:26	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 18:26	1
Vinyl chloride	0.22	J	0.50	0.059	ug/L			08/06/13 18:26	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		08/06/13 18:26	1
4-Bromofluorobenzene (Surr)	102		80 - 120		08/06/13 18:26	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	8.8		0.40	0.080	ug/L		08/09/13 13:50	08/13/13 11:48	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	69	D	70 - 130	08/09/13 13:50	08/13/13 11:48	2

TestAmerica Buffalo

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)
480-43031-21	155 Meetinghouse Road Duplicate	102	101
480-43031-25	325 Schoolhouse Road (RES-30) R:	104	102
LCS 480-132558/4	Lab Control Sample	101	101
MB 480-132558/5	Method Blank	104	102
Surrogate Legend			
12DCB = 1,2-Dichlorobenzene-d4			
BFB = 4-Bromofluorobenzene (Surr)			

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	14DD8 (70-130)	
480-43031-21	155 Meetinghouse Road Duplicate	81	
480-43031-25	325 Schoolhouse Road (RES-30) R:	69 D	
LCS 200-59622/2-A	Lab Control Sample	75	
MB 200-59622/1-A	Method Blank	90	
Surrogate Legend			
14DD8 = 1,4-Dioxane-d8 (Surr)			

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-132558/5

Matrix: Water

Analysis Batch: 132558

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 13:16	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 13:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 13:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 13:16	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 13:16	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 13:16	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 13:16	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 13:16	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 13:16	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 13:16	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 13:16	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 13:16	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 13:16	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 13:16	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 13:16	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 13:16	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 13:16	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 13:16	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 13:16	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 13:16	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 13:16	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 13:16	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 13:16	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 13:16	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 13:16	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 13:16	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 13:16	1
Acetone	ND		2.5	0.54	ug/L			08/06/13 13:16	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 13:16	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 13:16	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 13:16	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 13:16	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 13:16	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 13:16	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 13:16	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 13:16	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 13:16	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 13:16	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 13:16	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 13:16	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 13:16	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 13:16	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 13:16	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 13:16	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 13:16	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 13:16	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 13:16	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 13:16	1

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-132558/5

Matrix: Water

Analysis Batch: 132558

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 13:16	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 13:16	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 13:16	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 13:16	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 13:16	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 13:16	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 13:16	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 13:16	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 13:16	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 13:16	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 13:16	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 13:16	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 13:16	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 13:16	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 13:16	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 13:16	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 13:16	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 13:16	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 13:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		08/06/13 13:16	1
4-Bromofluorobenzene (Surr)	102		80 - 120		08/06/13 13:16	1

Lab Sample ID: LCS 480-132558/4

Matrix: Water

Analysis Batch: 132558

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.01		ug/L		100	70 - 130
1,1,1-Trichloroethane	4.00	4.06		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.41		ug/L		85	70 - 130
1,1,2-Trichloroethane	4.00	3.64		ug/L		91	70 - 130
1,1-Dichloroethane	4.00	3.79		ug/L		95	70 - 130
1,1-Dichloroethene	4.00	3.35		ug/L		84	70 - 130
1,1-Dichloropropene	4.00	4.10		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	4.00	4.18		ug/L		105	70 - 130
1,2,3-Trichloropropane	4.00	3.87		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	4.00	4.08		ug/L		102	70 - 130
1,2,4-Trimethylbenzene	4.00	3.97		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.56		ug/L		89	70 - 130
1,2-Dibromoethane	4.00	3.82		ug/L		96	70 - 130
1,2-Dichlorobenzene	4.00	3.92		ug/L		98	70 - 130
1,2-Dichloroethane	4.00	4.14		ug/L		103	70 - 130
1,2-Dichloropropane	4.00	3.57		ug/L		89	70 - 130
1,3,5-Trimethylbenzene	4.00	3.88		ug/L		97	70 - 130
1,3-Dichlorobenzene	4.00	3.88		ug/L		97	70 - 130
1,3-Dichloropropane	4.00	3.75		ug/L		94	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-132558/4

Matrix: Water

Analysis Batch: 132558

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.82		ug/L		95	70 - 130
2,2-Dichloropropane	4.00	3.27		ug/L		82	70 - 130
2-Butanone (MEK)	20.0	17.4		ug/L		87	70 - 130
2-Chlorotoluene	4.00	3.84		ug/L		96	70 - 130
4-Chlorotoluene	4.00	3.78		ug/L		94	70 - 130
4-Isopropyltoluene	4.00	3.83		ug/L		96	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.1		ug/L		90	70 - 130
Acetone	20.0	18.6		ug/L		93	70 - 130
Benzene	4.00	3.88		ug/L		97	70 - 130
Bromobenzene	4.00	3.86		ug/L		97	70 - 130
Bromochloromethane	4.00	4.06		ug/L		102	70 - 130
Bromoform	4.00	3.38		ug/L		84	70 - 130
Bromomethane	4.00	4.38		ug/L		110	70 - 130
Carbon tetrachloride	4.00	4.14		ug/L		103	70 - 130
Chlorobenzene	4.00	3.92		ug/L		98	70 - 130
Chlorodibromomethane	4.00	3.60		ug/L		90	70 - 130
Chloroethane	4.00	3.95		ug/L		99	70 - 130
Chloroform	4.00	4.03		ug/L		101	70 - 130
Chloromethane	4.00	3.81		ug/L		95	70 - 130
cis-1,2-Dichloroethene	4.00	3.85		ug/L		96	70 - 130
cis-1,3-Dichloropropene	4.00	3.53		ug/L		88	70 - 130
Dibromomethane	4.00	3.88		ug/L		97	70 - 130
Dichlorobromomethane	4.00	3.83		ug/L		96	70 - 130
Dichlorodifluoromethane	4.00	4.78		ug/L		119	70 - 130
Ethylbenzene	4.00	3.83		ug/L		96	70 - 130
Hexachlorobutadiene	4.00	3.84		ug/L		96	70 - 130
Isopropylbenzene	4.00	3.98		ug/L		99	70 - 130
Methyl tert-butyl ether	4.00	3.85		ug/L		96	70 - 130
Methylene Chloride	4.00	3.70		ug/L		92	70 - 130
Naphthalene	4.00	4.04		ug/L		101	70 - 130
n-Butylbenzene	4.00	3.76		ug/L		94	70 - 130
N-Propylbenzene	4.00	3.73		ug/L		93	70 - 130
sec-Butylbenzene	4.00	3.75		ug/L		94	70 - 130
Styrene	4.00	3.88		ug/L		97	70 - 130
tert-Butylbenzene	4.00	3.87		ug/L		97	70 - 130
Tetrachloroethene	4.00	3.82		ug/L		96	70 - 130
Toluene	4.00	3.88		ug/L		97	70 - 130
trans-1,2-Dichloroethene	4.00	3.82		ug/L		96	70 - 130
trans-1,3-Dichloropropene	4.00	3.45		ug/L		86	70 - 130
Trichloroethene	4.00	3.83		ug/L		96	70 - 130
Trichlorofluoromethane	4.00	4.77		ug/L		119	70 - 130
Vinyl chloride	4.00	4.20		ug/L		105	70 - 130
Xylenes, Total	12.0	11.8		ug/L		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	101		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-59622/1-A

Matrix: Water

Analysis Batch: 59693

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/09/13 22:31	08/13/13 15:23	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	90		70 - 130				08/09/13 22:31	08/13/13 15:23	1

Lab Sample ID: LCS 200-59622/2-A

Matrix: Water

Analysis Batch: 59693

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	8.00	8.28	E	ug/L		103	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	75		70 - 130				

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

GC/MS VOA

Analysis Batch: 132558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-43031-21	155 Meetinghouse Road Duplicate	Total/NA	Water	524.2	
480-43031-25	325 Schoolhouse Road (RES-30) Raw Water Duplicate	Total/NA	Water	524.2	
LCS 480-132558/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-132558/5	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 59603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-43031-25	325 Schoolhouse Road (RES-30) Raw Water Duplicate	Total/NA	Water	3535A	

Prep Batch: 59622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-43031-21	155 Meetinghouse Road Duplicate	Total/NA	Water	3535A	
LCS 200-59622/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-59622/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 59693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-43031-21	155 Meetinghouse Road Duplicate	Total/NA	Water	522 MOD	59622
480-43031-25	325 Schoolhouse Road (RES-30) Raw Water Duplicate	Total/NA	Water	522 MOD	59603
LCS 200-59622/2-A	Lab Control Sample	Total/NA	Water	522 MOD	59622
MB 200-59622/1-A	Method Blank	Total/NA	Water	522 MOD	59622

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

Client Sample ID: 155 Meetinghouse Road Duplicate

Lab Sample ID: 480-43031-21

Date Collected: 07/31/13 13:50

Matrix: Water

Date Received: 08/02/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132558	08/06/13 16:46	TRB	TAL BUF
Total/NA	Prep	3535A			59622	08/09/13 22:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59693	08/13/13 16:09	RJH	TAL BUR

Client Sample ID: 325 Schoolhouse Road (RES-30) Raw Water

Lab Sample ID: 480-43031-25

Duplicate

Date Collected: 07/31/13 14:55

Matrix: Water

Date Received: 08/02/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132558	08/06/13 18:26	TRB	TAL BUF
Total/NA	Prep	3535A			59603	08/09/13 13:50	MLT	TAL BUR
Total/NA	Analysis	522 MOD		2	59693	08/13/13 11:48	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13 *
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13 *

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-43031-21	155 Meetinghouse Road Duplicate	Water	07/31/13 13:50	08/02/13 02:30
480-43031-25	325 Schoolhouse Road (RES-30) Raw Water Duplicate	Water	07/31/13 14:55	08/02/13 02:30

Chain of Custody Record

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: MA MCP

Client Contact Bennett Environmental Associates, Inc. Address: 1573 Main St. / P.O. Box 1743 City/State/Zip: Brewster, MA 02631 Phone: 508-896-1706 FAX: 508-896-5109 Project Name: Eastham Landfill Site: Town of Eastham P O #: BEA09-10104		Project Manager: David Bennett Tel/Fax: 508-896-1706 Analysis Turnaround Time Calendar (C) or Work Days (W) C TAT if different from Below _____ ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Site Contact: Lab Contact: _____ Date: _____ Carrier: _____		COC No: 1 of 3 COCs					
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y/N)	Composite = C / Grab = G	1,4-Dioxane via 522.1 Mod	VOCs via 524.2	Sample Specific Notes:
65 Piper Lane		7/31/2013	10:00 am	G	W	5	N	G	3	2	
65 Piper Lane Duplicate		7/31/2013	10:00 am	G	W	4	N	G	3	1	
3 Sharon Circle		7/31/2013	10:50 am	G	W	5	N	G	3	2	
3 Sharon Circle Duplicate		7/31/2013	10:50 am	G	W	4	N	G	3	1	
200 Glacier Hills Road		7/31/2013	11:20 am	G	W	5	N	G	3	2	
200 Glacier Hills Road Duplicate		7/31/2013	11:20 am	G	W	4	N	G	3	1	
300 Glacier Hills Road		7/31/2013	12:10 pm	G	W	5	N	G	3	2	
300 Glacier Hills Road Duplicate		7/31/2013	12:10 pm	G	W	4	N	G	3	1	
35 Surrey Drive		7/31/2013	1:05 pm	G	W	5	N	G	3	2	
35 Surrey Drive Duplicate		7/31/2013	1:05 pm	G	W	4	N	G	3	1	
Trip Blank		7/31/2013	8:15 am	G	W	4	N	G	3	1	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____											
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.											
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown											
Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com											

Relinquished by: 		Company: BEA	Date/Time: 7/31/13 2:00	Received by: Sample for use	Company:	Date/Time:
Relinquished by: 		Company: BEA	Date/Time: 8/13/13 11:00	Received by: 	Company: T.A.	Date/Time: 8-13 1100
Relinquished by: 		Company:	Date/Time: 8/13/13 1415	Received in Laboratory by: 	Company: T.A.	Date/Time: 8-2-13 0230

2.8, 2.0 #1

Chain of Custody Record

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: MA MCP

Client Contact		Project Manager: David Bennett		Site Contact:		Date:	
Bennett Environmental Associates, Inc.		Tel/Fax: 508-896-1706		Lab Contact:		Carrier:	
Address: 1573 Main St. / P.O. Box 1743		Analysis Turnaround Time		VOCs via 524.2		COC No: 2 of 3 COCs	
City/State/Zip: Brewster, MA 02631		Calendar (C) or Work Days (W) C		Filtered Sample (Y/N)		For Lab Use Only:	
Phone: 508-896-1706		TAT if different from Below		Composite = C / Grab = G		Walk-in Client:	
FAX: 508-896-5109		☒ 2 weeks		1,4-Dioxane via 522.1 Mod		Lab Sampling:	
Project Name: Eastham Landfill		☐ 1 week				Job / SDG No.: BEA11-10104	
Site: Town of Eastham		☐ 2 days				Sampler: JTW (BEA)	
P O #: BEA09-10104		☐ 1 day				Sample Specific Notes:	
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.		
40 Chipman Street	7/31/2013	9:55 am	G	W	5		
40 Chipman Street Duplicate	7/31/2013	9:55 am	G	W	4		
50 Starlight Lane	7/31/2013	11:15 am	G	W	5		
50 Starlight Lane Duplicate	7/31/2013	11:15 am	G	W	4		
440 Meetinghouse Road	7/31/2013	11:55 am	G	W	5		
440 Meetinghouse Road Duplicate	7/31/2013	11:55 am	G	W	4		
235 Alston Avenue	7/31/2013	1:05 pm	G	W	5		
235 Alston Avenue Duplicate	7/31/2013	1:05 pm	G	W	4		
155 Meetinghouse Road	7/31/2013	1:50 pm	G	W	5		
155 Meetinghouse Road Duplicate	7/31/2013	1:50 pm	G	W	4		
30 Deepwood Drive	7/31/2013	3:55 pm	G	W	5		
30 Deepwood Drive Duplicate	7/31/2013	3:55 pm	G	W	4		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible-Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

Relinquished by: [Signature] Date/Time: 7/31/13 5:00 PM Company: BEA Received by: [Signature] Date/Time: 8/1/13 11:00 AM Company: BEA

Relinquished by: [Signature] Date/Time: 8/1/13 11:00 AM Company: BEA Received by: [Signature] Date/Time: 8/1/13 11:00 AM Company: BEA

Relinquished by: [Signature] Date/Time: 8/1/13 11:00 AM Company: BEA Received by: [Signature] Date/Time: 8/1/13 11:00 AM Company: BEA

2.8, 2.0 #1

TestAmerica Laboratories, Inc.

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-43031-2

Login Number: 43031

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	False	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-43031-2

Login Number: 43031

List Number: 1

Creator: Marion, Greg T

List Source: TestAmerica Burlington

List Creation: 08/04/13 12:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	957403,402,401
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8,3.0,3.6°C IR GUN ID 181/CF=-0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	Preservation labels on samples match COC
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-43031-2

Login Number: 43031

List Number: 2

Creator: Marion, Greg T

List Source: TestAmerica Burlington

List Creation: 08/04/13 12:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	957403,402,401
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8,3.0,3.6°C IR GUN ID 181/CF=-0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	Preservation labels on samples match COC
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-43204-1

Client Project/Site: Eastham Landfill IRA

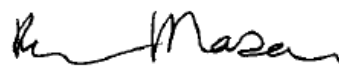
For:

Bennett Environmental Associates, Inc.

1573 Main St.

Brewster, Massachusetts 02631

Attn: David Bennett



Authorized for release by:

8/14/2013 1:40:23 PM

Becky Mason, Project Manager II

becky.mason@testamericainc.com

Designee for

Steve Hartmann, Lab Director

steve.hartmann@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Job ID: 480-43204-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt

The samples were received on 8/6/2013 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

GC/MS VOA

Method 524.2: The laboratory control sample (LCS) for batch 132702 recovered outside control limits for the following analyte: Trichlorofluoromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 180 Glacier Hills Road

Lab Sample ID: 480-43204-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.86	J	2.5	0.54	ug/L	1		524.2	Total/NA

Client Sample ID: 375 Meetinghouse Road

Lab Sample ID: 480-43204-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.78	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.49	J	0.50	0.14	ug/L	1		524.2	Total/NA
Chloromethane	0.073	J	0.50	0.063	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.35	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.19	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 55 Northwood Drive

Lab Sample ID: 480-43204-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.56		0.50	0.14	ug/L	1		524.2	Total/NA
Chloromethane	0.066	J	0.50	0.063	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.15	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 2 Eldia Way

Lab Sample ID: 480-43204-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.67	J	2.5	0.54	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.40	J	0.50	0.12	ug/L	1		524.2	Total/NA

Client Sample ID: 350 Schoolhouse Road

Lab Sample ID: 480-43204-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.67	J	2.5	0.54	ug/L	1		524.2	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-43204-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.4		2.5	0.54	ug/L	1		524.2	Total/NA
Methylene Chloride	0.43	J	0.50	0.25	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 180 Glacier Hills Road

Lab Sample ID: 480-43204-1

Date Collected: 08/02/13 09:45

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/07/13 13:13	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/07/13 13:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/07/13 13:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/07/13 13:13	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/07/13 13:13	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/07/13 13:13	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/07/13 13:13	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/07/13 13:13	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/07/13 13:13	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/07/13 13:13	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 13:13	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/07/13 13:13	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/07/13 13:13	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/07/13 13:13	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/07/13 13:13	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/07/13 13:13	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/07/13 13:13	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/07/13 13:13	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 13:13	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/07/13 13:13	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 13:13	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/07/13 13:13	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/07/13 13:13	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 13:13	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 13:13	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/07/13 13:13	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/07/13 13:13	1
Acetone	0.86	J	2.5	0.54	ug/L			08/07/13 13:13	1
Benzene	ND		0.50	0.13	ug/L			08/07/13 13:13	1
Bromobenzene	ND		0.50	0.13	ug/L			08/07/13 13:13	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/07/13 13:13	1
Bromoform	ND		0.50	0.13	ug/L			08/07/13 13:13	1
Bromomethane	ND		0.50	0.051	ug/L			08/07/13 13:13	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/07/13 13:13	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/07/13 13:13	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/07/13 13:13	1
Chloroethane	ND		0.50	0.070	ug/L			08/07/13 13:13	1
Chloroform	ND		0.50	0.14	ug/L			08/07/13 13:13	1
Chloromethane	ND		0.50	0.063	ug/L			08/07/13 13:13	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/07/13 13:13	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/07/13 13:13	1
Dibromomethane	ND		0.50	0.17	ug/L			08/07/13 13:13	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/07/13 13:13	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/07/13 13:13	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/07/13 13:13	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/07/13 13:13	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/07/13 13:13	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/07/13 13:13	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/07/13 13:13	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 180 Glacier Hills Road

Lab Sample ID: 480-43204-1

Date Collected: 08/02/13 09:45

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/07/13 13:13	1
Naphthalene	ND		0.50	0.060	ug/L			08/07/13 13:13	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/07/13 13:13	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/07/13 13:13	1
o-Xylene	ND		0.50	0.044	ug/L			08/07/13 13:13	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/07/13 13:13	1
Styrene	ND		0.50	0.044	ug/L			08/07/13 13:13	1
t-Butanol	ND		10	2.5	ug/L			08/07/13 13:13	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/07/13 13:13	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/07/13 13:13	1
Toluene	ND		0.50	0.10	ug/L			08/07/13 13:13	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/07/13 13:13	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/07/13 13:13	1
Trichloroethene	ND		0.50	0.060	ug/L			08/07/13 13:13	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			08/07/13 13:13	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/07/13 13:13	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/07/13 13:13	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/07/13 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		08/07/13 13:13	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/07/13 13:13	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/07/13 17:39	08/08/13 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	78		70 - 130	08/07/13 17:39	08/08/13 16:55	1

Client Sample ID: 375 Meetinghouse Road

Lab Sample ID: 480-43204-3

Date Collected: 08/02/13 10:45

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/07/13 14:04	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/07/13 14:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/07/13 14:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/07/13 14:04	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/07/13 14:04	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/07/13 14:04	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/07/13 14:04	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/07/13 14:04	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/07/13 14:04	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/07/13 14:04	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 14:04	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/07/13 14:04	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/07/13 14:04	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/07/13 14:04	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 375 Meetinghouse Road

Lab Sample ID: 480-43204-3

Date Collected: 08/02/13 10:45

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/07/13 14:04	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/07/13 14:04	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/07/13 14:04	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/07/13 14:04	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 14:04	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/07/13 14:04	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 14:04	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/07/13 14:04	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/07/13 14:04	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 14:04	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 14:04	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/07/13 14:04	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/07/13 14:04	1
Acetone	0.78	J	2.5	0.54	ug/L			08/07/13 14:04	1
Benzene	ND		0.50	0.13	ug/L			08/07/13 14:04	1
Bromobenzene	ND		0.50	0.13	ug/L			08/07/13 14:04	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/07/13 14:04	1
Bromoform	ND		0.50	0.13	ug/L			08/07/13 14:04	1
Bromomethane	ND		0.50	0.051	ug/L			08/07/13 14:04	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/07/13 14:04	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/07/13 14:04	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/07/13 14:04	1
Chloroethane	ND		0.50	0.070	ug/L			08/07/13 14:04	1
Chloroform	0.49	J	0.50	0.14	ug/L			08/07/13 14:04	1
Chloromethane	0.073	J	0.50	0.063	ug/L			08/07/13 14:04	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/07/13 14:04	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/07/13 14:04	1
Dibromomethane	ND		0.50	0.17	ug/L			08/07/13 14:04	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/07/13 14:04	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/07/13 14:04	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/07/13 14:04	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/07/13 14:04	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/07/13 14:04	1
Methyl tert-butyl ether	0.35	J	0.50	0.12	ug/L			08/07/13 14:04	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/07/13 14:04	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/07/13 14:04	1
Naphthalene	ND		0.50	0.060	ug/L			08/07/13 14:04	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/07/13 14:04	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/07/13 14:04	1
o-Xylene	ND		0.50	0.044	ug/L			08/07/13 14:04	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/07/13 14:04	1
Styrene	ND		0.50	0.044	ug/L			08/07/13 14:04	1
t-Butanol	ND		10	2.5	ug/L			08/07/13 14:04	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/07/13 14:04	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/07/13 14:04	1
Toluene	ND		0.50	0.10	ug/L			08/07/13 14:04	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/07/13 14:04	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/07/13 14:04	1
Trichloroethene	ND		0.50	0.060	ug/L			08/07/13 14:04	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 375 Meetinghouse Road

Lab Sample ID: 480-43204-3

Date Collected: 08/02/13 10:45

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			08/07/13 14:04	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/07/13 14:04	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/07/13 14:04	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/07/13 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120					08/07/13 14:04	1
4-Bromofluorobenzene (Surr)	101		80 - 120					08/07/13 14:04	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.19	J	0.20	0.040	ug/L		08/07/13 17:39	08/08/13 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	82		70 - 130				08/07/13 17:39	08/08/13 17:17	1

Client Sample ID: 55 Northwood Drive

Lab Sample ID: 480-43204-5

Date Collected: 08/02/13 11:55

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/07/13 14:55	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/07/13 14:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/07/13 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/07/13 14:55	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/07/13 14:55	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/07/13 14:55	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/07/13 14:55	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/07/13 14:55	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/07/13 14:55	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/07/13 14:55	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 14:55	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/07/13 14:55	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/07/13 14:55	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/07/13 14:55	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/07/13 14:55	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/07/13 14:55	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/07/13 14:55	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/07/13 14:55	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 14:55	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/07/13 14:55	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 14:55	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/07/13 14:55	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/07/13 14:55	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 14:55	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 14:55	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/07/13 14:55	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/07/13 14:55	1
Acetone	1.2	J	2.5	0.54	ug/L			08/07/13 14:55	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 55 Northwood Drive

Lab Sample ID: 480-43204-5

Date Collected: 08/02/13 11:55

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			08/07/13 14:55	1
Bromobenzene	ND		0.50	0.13	ug/L			08/07/13 14:55	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/07/13 14:55	1
Bromoform	ND		0.50	0.13	ug/L			08/07/13 14:55	1
Bromomethane	ND		0.50	0.051	ug/L			08/07/13 14:55	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/07/13 14:55	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/07/13 14:55	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/07/13 14:55	1
Chloroethane	ND		0.50	0.070	ug/L			08/07/13 14:55	1
Chloroform	0.56		0.50	0.14	ug/L			08/07/13 14:55	1
Chloromethane	0.066	J	0.50	0.063	ug/L			08/07/13 14:55	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/07/13 14:55	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/07/13 14:55	1
Dibromomethane	ND		0.50	0.17	ug/L			08/07/13 14:55	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/07/13 14:55	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/07/13 14:55	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/07/13 14:55	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/07/13 14:55	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/07/13 14:55	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/07/13 14:55	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/07/13 14:55	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/07/13 14:55	1
Naphthalene	ND		0.50	0.060	ug/L			08/07/13 14:55	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/07/13 14:55	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/07/13 14:55	1
o-Xylene	ND		0.50	0.044	ug/L			08/07/13 14:55	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/07/13 14:55	1
Styrene	ND		0.50	0.044	ug/L			08/07/13 14:55	1
t-Butanol	ND		10	2.5	ug/L			08/07/13 14:55	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/07/13 14:55	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/07/13 14:55	1
Toluene	ND		0.50	0.10	ug/L			08/07/13 14:55	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/07/13 14:55	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/07/13 14:55	1
Trichloroethene	ND		0.50	0.060	ug/L			08/07/13 14:55	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			08/07/13 14:55	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/07/13 14:55	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/07/13 14:55	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/07/13 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/07/13 14:55	1
4-Bromofluorobenzene (Surr)	102		80 - 120		08/07/13 14:55	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.15	J	0.20	0.040	ug/L		08/07/13 17:39	08/08/13 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	87		70 - 130	08/07/13 17:39	08/08/13 17:39	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 2 Eldia Way

Lab Sample ID: 480-43204-7

Date Collected: 08/02/13 12:45

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/07/13 15:46	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/07/13 15:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/07/13 15:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/07/13 15:46	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/07/13 15:46	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/07/13 15:46	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/07/13 15:46	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/07/13 15:46	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/07/13 15:46	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/07/13 15:46	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 15:46	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/07/13 15:46	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/07/13 15:46	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/07/13 15:46	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/07/13 15:46	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/07/13 15:46	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/07/13 15:46	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/07/13 15:46	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 15:46	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/07/13 15:46	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 15:46	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/07/13 15:46	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/07/13 15:46	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 15:46	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 15:46	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/07/13 15:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/07/13 15:46	1
Acetone	0.67 J		2.5	0.54	ug/L			08/07/13 15:46	1
Benzene	ND		0.50	0.13	ug/L			08/07/13 15:46	1
Bromobenzene	ND		0.50	0.13	ug/L			08/07/13 15:46	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/07/13 15:46	1
Bromoform	ND		0.50	0.13	ug/L			08/07/13 15:46	1
Bromomethane	ND		0.50	0.051	ug/L			08/07/13 15:46	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/07/13 15:46	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/07/13 15:46	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/07/13 15:46	1
Chloroethane	ND		0.50	0.070	ug/L			08/07/13 15:46	1
Chloroform	ND		0.50	0.14	ug/L			08/07/13 15:46	1
Chloromethane	ND		0.50	0.063	ug/L			08/07/13 15:46	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/07/13 15:46	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/07/13 15:46	1
Dibromomethane	ND		0.50	0.17	ug/L			08/07/13 15:46	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/07/13 15:46	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/07/13 15:46	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/07/13 15:46	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/07/13 15:46	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/07/13 15:46	1
Methyl tert-butyl ether	0.40 J		0.50	0.12	ug/L			08/07/13 15:46	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/07/13 15:46	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 2 Eldia Way

Lab Sample ID: 480-43204-7

Date Collected: 08/02/13 12:45

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/07/13 15:46	1
Naphthalene	ND		0.50	0.060	ug/L			08/07/13 15:46	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/07/13 15:46	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/07/13 15:46	1
o-Xylene	ND		0.50	0.044	ug/L			08/07/13 15:46	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/07/13 15:46	1
Styrene	ND		0.50	0.044	ug/L			08/07/13 15:46	1
t-Butanol	ND		10	2.5	ug/L			08/07/13 15:46	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/07/13 15:46	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/07/13 15:46	1
Toluene	ND		0.50	0.10	ug/L			08/07/13 15:46	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/07/13 15:46	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/07/13 15:46	1
Trichloroethene	ND		0.50	0.060	ug/L			08/07/13 15:46	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			08/07/13 15:46	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/07/13 15:46	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/07/13 15:46	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/07/13 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/07/13 15:46	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/07/13 15:46	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/07/13 17:39	08/08/13 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	98		70 - 130	08/07/13 17:39	08/08/13 18:49	1

Client Sample ID: 350 Schoolhouse Road

Lab Sample ID: 480-43204-9

Date Collected: 08/02/13 13:30

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/07/13 16:37	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/07/13 16:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/07/13 16:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/07/13 16:37	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/07/13 16:37	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/07/13 16:37	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/07/13 16:37	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/07/13 16:37	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/07/13 16:37	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/07/13 16:37	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 16:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/07/13 16:37	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/07/13 16:37	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/07/13 16:37	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 350 Schoolhouse Road

Lab Sample ID: 480-43204-9

Date Collected: 08/02/13 13:30

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/07/13 16:37	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/07/13 16:37	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/07/13 16:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/07/13 16:37	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 16:37	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/07/13 16:37	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 16:37	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/07/13 16:37	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/07/13 16:37	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 16:37	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 16:37	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/07/13 16:37	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/07/13 16:37	1
Acetone	0.67	J	2.5	0.54	ug/L			08/07/13 16:37	1
Benzene	ND		0.50	0.13	ug/L			08/07/13 16:37	1
Bromobenzene	ND		0.50	0.13	ug/L			08/07/13 16:37	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/07/13 16:37	1
Bromoform	ND		0.50	0.13	ug/L			08/07/13 16:37	1
Bromomethane	ND		0.50	0.051	ug/L			08/07/13 16:37	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/07/13 16:37	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/07/13 16:37	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/07/13 16:37	1
Chloroethane	ND		0.50	0.070	ug/L			08/07/13 16:37	1
Chloroform	ND		0.50	0.14	ug/L			08/07/13 16:37	1
Chloromethane	ND		0.50	0.063	ug/L			08/07/13 16:37	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/07/13 16:37	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/07/13 16:37	1
Dibromomethane	ND		0.50	0.17	ug/L			08/07/13 16:37	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/07/13 16:37	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/07/13 16:37	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/07/13 16:37	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/07/13 16:37	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/07/13 16:37	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/07/13 16:37	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/07/13 16:37	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/07/13 16:37	1
Naphthalene	ND		0.50	0.060	ug/L			08/07/13 16:37	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/07/13 16:37	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/07/13 16:37	1
o-Xylene	ND		0.50	0.044	ug/L			08/07/13 16:37	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/07/13 16:37	1
Styrene	ND		0.50	0.044	ug/L			08/07/13 16:37	1
t-Butanol	ND		10	2.5	ug/L			08/07/13 16:37	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/07/13 16:37	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/07/13 16:37	1
Toluene	ND		0.50	0.10	ug/L			08/07/13 16:37	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/07/13 16:37	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/07/13 16:37	1
Trichloroethene	ND		0.50	0.060	ug/L			08/07/13 16:37	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 350 Schoolhouse Road

Lab Sample ID: 480-43204-9

Date Collected: 08/02/13 13:30

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			08/07/13 16:37	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/07/13 16:37	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/07/13 16:37	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/07/13 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		08/07/13 16:37	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/07/13 16:37	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/07/13 17:39	08/08/13 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	85		70 - 130	08/07/13 17:39	08/08/13 19:11	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-43204-11

Date Collected: 07/30/13 00:00

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/07/13 17:27	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/07/13 17:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/07/13 17:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/07/13 17:27	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/07/13 17:27	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/07/13 17:27	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/07/13 17:27	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/07/13 17:27	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/07/13 17:27	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/07/13 17:27	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 17:27	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/07/13 17:27	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/07/13 17:27	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/07/13 17:27	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/07/13 17:27	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/07/13 17:27	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/07/13 17:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/07/13 17:27	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 17:27	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/07/13 17:27	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 17:27	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/07/13 17:27	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/07/13 17:27	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 17:27	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 17:27	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/07/13 17:27	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/07/13 17:27	1
Acetone	3.4		2.5	0.54	ug/L			08/07/13 17:27	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-43204-11

Date Collected: 07/30/13 00:00

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			08/07/13 17:27	1
Bromobenzene	ND		0.50	0.13	ug/L			08/07/13 17:27	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/07/13 17:27	1
Bromoform	ND		0.50	0.13	ug/L			08/07/13 17:27	1
Bromomethane	ND		0.50	0.051	ug/L			08/07/13 17:27	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/07/13 17:27	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/07/13 17:27	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/07/13 17:27	1
Chloroethane	ND		0.50	0.070	ug/L			08/07/13 17:27	1
Chloroform	ND		0.50	0.14	ug/L			08/07/13 17:27	1
Chloromethane	ND		0.50	0.063	ug/L			08/07/13 17:27	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/07/13 17:27	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/07/13 17:27	1
Dibromomethane	ND		0.50	0.17	ug/L			08/07/13 17:27	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/07/13 17:27	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/07/13 17:27	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/07/13 17:27	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/07/13 17:27	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/07/13 17:27	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/07/13 17:27	1
Methylene Chloride	0.43	J	0.50	0.25	ug/L			08/07/13 17:27	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/07/13 17:27	1
Naphthalene	ND		0.50	0.060	ug/L			08/07/13 17:27	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/07/13 17:27	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/07/13 17:27	1
o-Xylene	ND		0.50	0.044	ug/L			08/07/13 17:27	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/07/13 17:27	1
Styrene	ND		0.50	0.044	ug/L			08/07/13 17:27	1
t-Butanol	ND		10	2.5	ug/L			08/07/13 17:27	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/07/13 17:27	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/07/13 17:27	1
Toluene	ND		0.50	0.10	ug/L			08/07/13 17:27	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/07/13 17:27	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/07/13 17:27	1
Trichloroethene	ND		0.50	0.060	ug/L			08/07/13 17:27	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			08/07/13 17:27	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/07/13 17:27	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/07/13 17:27	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/07/13 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		08/07/13 17:27	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/07/13 17:27	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/07/13 17:39	08/08/13 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	85		70 - 130	08/07/13 17:39	08/08/13 19:35	1

TestAmerica Buffalo

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)
480-43204-1	180 Glacier Hills Road	104	99
480-43204-3	375 Meetinghouse Road	103	101
480-43204-5	55 Northwood Drive	102	102
480-43204-7	2 Eldia Way	102	101
480-43204-9	350 Schoolhouse Road	103	101
480-43204-11	Trip Blank	103	99
LCS 480-132702/5	Lab Control Sample	104	101
MB 480-132702/6	Method Blank	100	100
Surrogate Legend			
12DCB = 1,2-Dichlorobenzene-d4			
BFB = 4-Bromofluorobenzene (Surr)			

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	14DD8 (70-130)	
480-43204-1	180 Glacier Hills Road	78	
480-43204-3	375 Meetinghouse Road	82	
480-43204-5	55 Northwood Drive	87	
480-43204-7	2 Eldia Way	98	
480-43204-9	350 Schoolhouse Road	85	
480-43204-11	Trip Blank	85	
LCS 200-59495/2-A	Lab Control Sample	85	
MB 200-59495/1-A	Method Blank	89	
Surrogate Legend			
14DD8 = 1,4-Dioxane-d8 (Surr)			

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-132702/6

Matrix: Water

Analysis Batch: 132702

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/07/13 11:18	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/07/13 11:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/07/13 11:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/07/13 11:18	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/07/13 11:18	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/07/13 11:18	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/07/13 11:18	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/07/13 11:18	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/07/13 11:18	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/07/13 11:18	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 11:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/07/13 11:18	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/07/13 11:18	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/07/13 11:18	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/07/13 11:18	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/07/13 11:18	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/07/13 11:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/07/13 11:18	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 11:18	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/07/13 11:18	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 11:18	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/07/13 11:18	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/07/13 11:18	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 11:18	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 11:18	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/07/13 11:18	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/07/13 11:18	1
Acetone	ND		2.5	0.54	ug/L			08/07/13 11:18	1
Benzene	ND		0.50	0.13	ug/L			08/07/13 11:18	1
Bromobenzene	ND		0.50	0.13	ug/L			08/07/13 11:18	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/07/13 11:18	1
Bromoform	ND		0.50	0.13	ug/L			08/07/13 11:18	1
Bromomethane	ND		0.50	0.051	ug/L			08/07/13 11:18	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/07/13 11:18	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/07/13 11:18	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/07/13 11:18	1
Chloroethane	ND		0.50	0.070	ug/L			08/07/13 11:18	1
Chloroform	ND		0.50	0.14	ug/L			08/07/13 11:18	1
Chloromethane	ND		0.50	0.063	ug/L			08/07/13 11:18	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/07/13 11:18	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/07/13 11:18	1
Dibromomethane	ND		0.50	0.17	ug/L			08/07/13 11:18	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/07/13 11:18	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/07/13 11:18	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/07/13 11:18	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/07/13 11:18	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/07/13 11:18	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/07/13 11:18	1

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-132702/6

Matrix: Water

Analysis Batch: 132702

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			08/07/13 11:18	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/07/13 11:18	1
Naphthalene	ND		0.50	0.060	ug/L			08/07/13 11:18	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/07/13 11:18	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/07/13 11:18	1
o-Xylene	ND		0.50	0.044	ug/L			08/07/13 11:18	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/07/13 11:18	1
Styrene	ND		0.50	0.044	ug/L			08/07/13 11:18	1
t-Butanol	ND		10	2.5	ug/L			08/07/13 11:18	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/07/13 11:18	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/07/13 11:18	1
Toluene	ND		0.50	0.10	ug/L			08/07/13 11:18	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/07/13 11:18	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/07/13 11:18	1
Trichloroethene	ND		0.50	0.060	ug/L			08/07/13 11:18	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/07/13 11:18	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/07/13 11:18	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/07/13 11:18	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/07/13 11:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	100		80 - 120		08/07/13 11:18	1
4-Bromofluorobenzene (Surr)	100		80 - 120		08/07/13 11:18	1

Lab Sample ID: LCS 480-132702/5

Matrix: Water

Analysis Batch: 132702

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.00		ug/L		100	70 - 130
1,1,1-Trichloroethane	4.00	4.18		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.42		ug/L		86	70 - 130
1,1,2-Trichloroethane	4.00	3.52		ug/L		88	70 - 130
1,1-Dichloroethane	4.00	3.72		ug/L		93	70 - 130
1,1-Dichloroethene	4.00	3.20		ug/L		80	70 - 130
1,1-Dichloropropene	4.00	4.00		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	4.00	4.17		ug/L		104	70 - 130
1,2,3-Trichloropropane	4.00	3.99		ug/L		100	70 - 130
1,2,4-Trichlorobenzene	4.00	4.10		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	4.00	3.93		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.73		ug/L		93	70 - 130
1,2-Dibromoethane	4.00	3.83		ug/L		96	70 - 130
1,2-Dichlorobenzene	4.00	3.97		ug/L		99	70 - 130
1,2-Dichloroethane	4.00	4.18		ug/L		105	70 - 130
1,2-Dichloropropane	4.00	3.36		ug/L		84	70 - 130
1,3,5-Trimethylbenzene	4.00	3.84		ug/L		96	70 - 130
1,3-Dichlorobenzene	4.00	3.86		ug/L		97	70 - 130
1,3-Dichloropropane	4.00	3.77		ug/L		94	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-132702/5

Matrix: Water

Analysis Batch: 132702

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.87		ug/L		97	70 - 130
2,2-Dichloropropane	4.00	3.46		ug/L		86	70 - 130
2-Butanone (MEK)	20.0	16.4		ug/L		82	70 - 130
2-Chlorotoluene	4.00	3.77		ug/L		94	70 - 130
4-Chlorotoluene	4.00	3.79		ug/L		95	70 - 130
4-Isopropyltoluene	4.00	3.82		ug/L		96	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	16.4		ug/L		82	70 - 130
Acetone	20.0	16.8		ug/L		84	70 - 130
Benzene	4.00	3.75		ug/L		94	70 - 130
Bromobenzene	4.00	3.95		ug/L		99	70 - 130
Bromochloromethane	4.00	3.97		ug/L		99	70 - 130
Bromoform	4.00	3.70		ug/L		93	70 - 130
Bromomethane	4.00	4.53		ug/L		113	70 - 130
Carbon tetrachloride	4.00	4.33		ug/L		108	70 - 130
Chlorobenzene	4.00	3.81		ug/L		95	70 - 130
Chlorodibromomethane	4.00	3.75		ug/L		94	70 - 130
Chloroethane	4.00	3.99		ug/L		100	70 - 130
Chloroform	4.00	3.92		ug/L		98	70 - 130
Chloromethane	4.00	3.83		ug/L		96	70 - 130
cis-1,2-Dichloroethene	4.00	3.69		ug/L		92	70 - 130
cis-1,3-Dichloropropene	4.00	3.50		ug/L		87	70 - 130
Dibromomethane	4.00	3.87		ug/L		97	70 - 130
Dichlorobromomethane	4.00	3.78		ug/L		94	70 - 130
Dichlorodifluoromethane	4.00	4.93		ug/L		123	70 - 130
Ethylbenzene	4.00	3.79		ug/L		95	70 - 130
Hexachlorobutadiene	4.00	3.98		ug/L		100	70 - 130
Isopropylbenzene	4.00	3.95		ug/L		99	70 - 130
Methyl tert-butyl ether	4.00	3.54		ug/L		88	70 - 130
Methylene Chloride	4.00	3.57		ug/L		89	70 - 130
Naphthalene	4.00	3.93		ug/L		98	70 - 130
n-Butylbenzene	4.00	3.78		ug/L		95	70 - 130
N-Propylbenzene	4.00	3.69		ug/L		92	70 - 130
sec-Butylbenzene	4.00	3.75		ug/L		94	70 - 130
Styrene	4.00	3.84		ug/L		96	70 - 130
tert-Butylbenzene	4.00	3.89		ug/L		97	70 - 130
Tetrachloroethene	4.00	3.78		ug/L		94	70 - 130
Toluene	4.00	3.70		ug/L		93	70 - 130
trans-1,2-Dichloroethene	4.00	3.67		ug/L		92	70 - 130
trans-1,3-Dichloropropene	4.00	3.47		ug/L		87	70 - 130
Trichloroethene	4.00	3.73		ug/L		93	70 - 130
Trichlorofluoromethane	4.00	5.34	*	ug/L		133	70 - 130
Vinyl chloride	4.00	4.16		ug/L		104	70 - 130
Xylenes, Total	12.0	11.7		ug/L		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	104		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-59495/1-A

Matrix: Water

Analysis Batch: 59549

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/07/13 17:39	08/08/13 14:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	89		70 - 130				08/07/13 17:39	08/08/13 14:32	1

Lab Sample ID: LCS 200-59495/2-A

Matrix: Water

Analysis Batch: 59549

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	8.00	9.14	E	ug/L		114	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	85		70 - 130				

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

GC/MS VOA

Analysis Batch: 132702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-43204-1	180 Glacier Hills Road	Total/NA	Water	524.2	
480-43204-3	375 Meetinghouse Road	Total/NA	Water	524.2	
480-43204-5	55 Northwood Drive	Total/NA	Water	524.2	
480-43204-7	2 Eldia Way	Total/NA	Water	524.2	
480-43204-9	350 Schoolhouse Road	Total/NA	Water	524.2	
480-43204-11	Trip Blank	Total/NA	Water	524.2	
LCS 480-132702/5	Lab Control Sample	Total/NA	Water	524.2	
MB 480-132702/6	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 59495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-43204-1	180 Glacier Hills Road	Total/NA	Water	3535A	
480-43204-3	375 Meetinghouse Road	Total/NA	Water	3535A	
480-43204-5	55 Northwood Drive	Total/NA	Water	3535A	
480-43204-7	2 Eldia Way	Total/NA	Water	3535A	
480-43204-9	350 Schoolhouse Road	Total/NA	Water	3535A	
480-43204-11	Trip Blank	Total/NA	Water	3535A	
LCS 200-59495/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-59495/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 59549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-43204-1	180 Glacier Hills Road	Total/NA	Water	522 MOD	59495
480-43204-3	375 Meetinghouse Road	Total/NA	Water	522 MOD	59495
480-43204-5	55 Northwood Drive	Total/NA	Water	522 MOD	59495
480-43204-7	2 Eldia Way	Total/NA	Water	522 MOD	59495
480-43204-9	350 Schoolhouse Road	Total/NA	Water	522 MOD	59495
480-43204-11	Trip Blank	Total/NA	Water	522 MOD	59495
LCS 200-59495/2-A	Lab Control Sample	Total/NA	Water	522 MOD	59495
MB 200-59495/1-A	Method Blank	Total/NA	Water	522 MOD	59495

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 180 Glacier Hills Road

Date Collected: 08/02/13 09:45

Date Received: 08/06/13 02:00

Lab Sample ID: 480-43204-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132702	08/07/13 13:13	TRB	TAL BUF
Total/NA	Prep	3535A			59495	08/07/13 17:39	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59549	08/08/13 16:55		TAL BUR

Client Sample ID: 375 Meetinghouse Road

Date Collected: 08/02/13 10:45

Date Received: 08/06/13 02:00

Lab Sample ID: 480-43204-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132702	08/07/13 14:04	TRB	TAL BUF
Total/NA	Prep	3535A			59495	08/07/13 17:39	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59549	08/08/13 17:17		TAL BUR

Client Sample ID: 55 Northwood Drive

Date Collected: 08/02/13 11:55

Date Received: 08/06/13 02:00

Lab Sample ID: 480-43204-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132702	08/07/13 14:55	TRB	TAL BUF
Total/NA	Prep	3535A			59495	08/07/13 17:39	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59549	08/08/13 17:39		TAL BUR

Client Sample ID: 2 Eldia Way

Date Collected: 08/02/13 12:45

Date Received: 08/06/13 02:00

Lab Sample ID: 480-43204-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132702	08/07/13 15:46	TRB	TAL BUF
Total/NA	Prep	3535A			59495	08/07/13 17:39	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59549	08/08/13 18:49		TAL BUR

Client Sample ID: 350 Schoolhouse Road

Date Collected: 08/02/13 13:30

Date Received: 08/06/13 02:00

Lab Sample ID: 480-43204-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132702	08/07/13 16:37	TRB	TAL BUF
Total/NA	Prep	3535A			59495	08/07/13 17:39	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59549	08/08/13 19:11		TAL BUR

TestAmerica Buffalo

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-43204-11

Date Collected: 07/30/13 00:00

Matrix: Water

Date Received: 08/06/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	132702	08/07/13 17:27	TRB	TAL BUF
Total/NA	Prep	3535A			59495	08/07/13 17:39	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	59549	08/08/13 19:35		TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13 *
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13 *

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-43204-1	180 Glacier Hills Road	Water	08/02/13 09:45	08/06/13 02:00
480-43204-3	375 Meetinghouse Road	Water	08/02/13 10:45	08/06/13 02:00
480-43204-5	55 Northwood Drive	Water	08/02/13 11:55	08/06/13 02:00
480-43204-7	2 Eldia Way	Water	08/02/13 12:45	08/06/13 02:00
480-43204-9	350 Schoolhouse Road	Water	08/02/13 13:30	08/06/13 02:00
480-43204-11	Trip Blank	Water	07/30/13 00:00	08/06/13 02:00

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: MA MCP

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: David Bennett Tel/Fax: 508-896-1706		Site Contact:		Date:		COC No:	
Bennett Environmental Associates, Inc. Address: 1573 Main St. / P.O. Box 1743 City/State/Zip: Brewster, MA 02631 Phone: 508-896-1706 FAX: 508-896-5109 Project Name: Eastham Landfill Site: Town of Eastham P O #: BEA09-10104		Analysis Turnaround Time Calendar (C) or Work Days (W) C TAT if different from Below ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Lab Contact:		Carrier:		1 of 1 COCs	
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes:		
180 Glacier Hills Road	8/2/2013	9:45 am	G	W		5	1,4-Dioxane via 522.1 Mod		
180 Glacier Hills Road Duplicate	8/2/2013	9:45 am	G	W		4	VOCs via 524.2		
375 Meetinghouse Road	8/2/2013	10:45 am	G	W		5	Composite = C / Grab = G		
375 Meetinghouse Road Duplicate	8/2/2013	10:45 am	G	W		4	Filtered Sample (Y/N)		
55 Northwood Drive	8/2/2013	11:55 am	G	W		5			
55 Northwood Drive Duplicate	8/2/2013	11:55 am	G	W		4			
2 Eldia Way	8/2/2013	12:45 pm	G	W		5			
2 Eldia Way Duplicate	8/2/2013	12:45 pm	G	W		4			
350 Schoolhouse Road	8/2/2013	1:30 pm	G	W		5			
350 Schoolhouse Road Duplicate	8/2/2013	1:30 pm	G	W		4			
Trip Blank	7/30/2013		G	W		4	Provided by Lab		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other							1,2,1,2		
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Return to Client ☐ Disposal by Lab ☐ Archive for Months									
Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com									
Relinquished by:		Company:	Date/Time:	Received by:		Company:	Date/Time:	2.6#1	
Relinquished by:		Company:	Date/Time:	Received by:		Company:	Date/Time:	TA 8/5/13 13:20	
Relinquished by:		Company:	Date/Time:	Received by:		Company:	Date/Time:	TA 8/6/13 02:00	

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-43204-1

Login Number: 43204

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	False	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-43204-1

Login Number: 43204

List Source: TestAmerica Burlington

List Number: 1

List Creation: 08/07/13 01:42 PM

Creator: Gagne, Eric M

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	937410
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	4.6°C IR GUN ID 181. CF -0.2
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	Received project as a subcontract.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-44857-1

Client Project/Site: Eastham Landfill IRA

Revision: 1

For:

Environmental Strategies and Management

273 West Main Street

Norton, Massachusetts 02766

Attn: Doug Heely



Authorized for release by:

9/12/2013 3:14:44 PM

Steve Hartmann, Lab Director

steve.hartmann@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Job ID: 480-44857-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-44857-1

Receipt

The samples were received on 8/30/2013 2:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA (524)

Method(s) 524.2: The continuing calibration verification (CCV) for Trichlorofluoromethane associated with batch 136991 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 524.2: The method blank for batch 136991 contained Chloromethane above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

GC/MS Semi VOA (522MOD)

No analytical or quality issues were noted.

Detection Summary

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Alston_080_Avenue

Lab Sample ID: 480-44857-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.5		0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.057	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: Alston_255_Avenue

Lab Sample ID: 480-44857-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.097	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	1.8	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.83		0.50	0.14	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	0.28	J	0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.17	J	0.50	0.12	ug/L	1		524.2	Total/NA
Vinyl chloride	0.090	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	1.8		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: Knowles_025_Street

Lab Sample ID: 480-44857-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.24	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	1.2	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroethane	0.14	J	0.50	0.070	ug/L	1		524.2	Total/NA
Chloroform	0.43	J	0.50	0.14	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	2.0		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.35	J	0.50	0.12	ug/L	1		524.2	Total/NA
Vinyl chloride	0.081	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	3.2		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: Knowles_030_Street

Lab Sample ID: 480-44857-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.32	J	0.50	0.074	ug/L	1		524.2	Total/NA
Benzene	0.28	J	0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.28	J	0.50	0.070	ug/L	1		524.2	Total/NA
Chloroform	0.19	J	0.50	0.14	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	1.4		0.50	0.12	ug/L	1		524.2	Total/NA
Dichlorodifluoromethane	0.22	J	0.50	0.070	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.76		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	4.5	J	10	2.5	ug/L	1		524.2	Total/NA
Vinyl chloride	0.14	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	5.6		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: Knowles_045_Street

Lab Sample ID: 480-44857-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.19	J	0.50	0.074	ug/L	1		524.2	Total/NA
Benzene	0.18	J	0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.16	J	0.50	0.070	ug/L	1		524.2	Total/NA
Chloroform	0.18	J	0.50	0.14	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	0.91		0.50	0.12	ug/L	1		524.2	Total/NA
Dichlorodifluoromethane	0.24	J	0.50	0.070	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.32	J	0.50	0.12	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Knowles_045_Street (Continued)

Lab Sample ID: 480-44857-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.13	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	2.0		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: Meetinghouse_100_Road

Lab Sample ID: 480-44857-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.39	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	1.9		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: Old Orchard_180_Road

Lab Sample ID: 480-44857-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.51		0.50	0.14	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.19	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.46		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: Schoolhouse_325_Road-INF

Lab Sample ID: 480-44857-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.37	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	1.4	J	2.5	0.54	ug/L	1		524.2	Total/NA
Benzene	0.63		0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.59		0.50	0.070	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	2.4		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	1.7		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	9.5	J	10	2.5	ug/L	1		524.2	Total/NA
Vinyl chloride	0.21	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	7.7		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: Schoolhouse_325_Road-MID

Lab Sample ID: 480-44857-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.57	J	2.5	0.54	ug/L	1		524.2	Total/NA

Client Sample ID: Schoolhouse_325_Road-EFF

Lab Sample ID: 480-44857-10

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 480-44857-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.9		2.5	0.54	ug/L	1		524.2	Total/NA
Methylene Chloride	0.36	J	0.50	0.25	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.047	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Alston_080_Avenue

Lab Sample ID: 480-44857-1

Date Collected: 08/27/13 14:30

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 11:46	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 11:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 11:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 11:46	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 11:46	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			09/03/13 11:46	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 11:46	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 11:46	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 11:46	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 11:46	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 11:46	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 11:46	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 11:46	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 11:46	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 11:46	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 11:46	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 11:46	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 11:46	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 11:46	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 11:46	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 11:46	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 11:46	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 11:46	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 11:46	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 11:46	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 11:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 11:46	1
Acetone	ND		2.5	0.54	ug/L			09/03/13 11:46	1
Benzene	ND		0.50	0.13	ug/L			09/03/13 11:46	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 11:46	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 11:46	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 11:46	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 11:46	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 11:46	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 11:46	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 11:46	1
Chloroethane	ND		0.50	0.070	ug/L			09/03/13 11:46	1
Chloroform	ND		0.50	0.14	ug/L			09/03/13 11:46	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 11:46	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			09/03/13 11:46	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 11:46	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 11:46	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 11:46	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 11:46	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 11:46	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 11:46	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 11:46	1
Methyl tert-butyl ether	1.5		0.50	0.12	ug/L			09/03/13 11:46	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 11:46	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Alston_080_Avenue

Lab Sample ID: 480-44857-1

Date Collected: 08/27/13 14:30

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 11:46	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 11:46	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 11:46	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 11:46	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 11:46	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 11:46	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 11:46	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 11:46	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 11:46	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 11:46	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 11:46	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 11:46	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 11:46	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 11:46	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 11:46	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 11:46	1
Vinyl chloride	ND		0.50	0.059	ug/L			09/03/13 11:46	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 11:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		09/03/13 11:46	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/03/13 11:46	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.057	J	0.20	0.040	ug/L		09/09/13 19:29	09/10/13 10:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	90		70 - 130	09/09/13 19:29	09/10/13 10:34	1

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Alston_255_Avenue

Lab Sample ID: 480-44857-2

Date Collected: 08/27/13 11:10

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 12:11	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 12:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 12:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 12:11	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 12:11	1
1,1-Dichloroethane	0.097	J	0.50	0.074	ug/L			09/03/13 12:11	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 12:11	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 12:11	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 12:11	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 12:11	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 12:11	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 12:11	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 12:11	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 12:11	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 12:11	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 12:11	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 12:11	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 12:11	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 12:11	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 12:11	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 12:11	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 12:11	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 12:11	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 12:11	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 12:11	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 12:11	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 12:11	1
Acetone	1.8	J	2.5	0.54	ug/L			09/03/13 12:11	1
Benzene	ND		0.50	0.13	ug/L			09/03/13 12:11	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 12:11	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 12:11	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 12:11	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 12:11	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 12:11	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 12:11	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 12:11	1
Chloroethane	ND		0.50	0.070	ug/L			09/03/13 12:11	1
Chloroform	0.83		0.50	0.14	ug/L			09/03/13 12:11	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 12:11	1
cis-1,2-Dichloroethene	0.28	J	0.50	0.12	ug/L			09/03/13 12:11	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 12:11	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 12:11	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 12:11	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 12:11	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 12:11	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 12:11	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 12:11	1
Methyl tert-butyl ether	0.17	J	0.50	0.12	ug/L			09/03/13 12:11	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 12:11	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Alston_255_Avenue

Lab Sample ID: 480-44857-2

Date Collected: 08/27/13 11:10

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 12:11	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 12:11	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 12:11	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 12:11	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 12:11	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 12:11	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 12:11	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 12:11	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 12:11	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 12:11	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 12:11	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 12:11	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 12:11	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 12:11	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 12:11	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 12:11	1
Vinyl chloride	0.090	J	0.50	0.059	ug/L			09/03/13 12:11	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 12:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	106		80 - 120		09/03/13 12:11	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/03/13 12:11	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.8		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	81		70 - 130	09/09/13 19:29	09/10/13 14:21	1

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Knowles_025_Street

Lab Sample ID: 480-44857-3

Date Collected: 08/27/13 09:55

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 12:36	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 12:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 12:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 12:36	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 12:36	1
1,1-Dichloroethane	0.24	J	0.50	0.074	ug/L			09/03/13 12:36	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 12:36	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 12:36	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 12:36	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 12:36	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 12:36	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 12:36	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 12:36	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 12:36	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 12:36	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 12:36	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 12:36	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 12:36	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 12:36	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 12:36	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 12:36	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 12:36	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 12:36	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 12:36	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 12:36	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 12:36	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 12:36	1
Acetone	1.2	J	2.5	0.54	ug/L			09/03/13 12:36	1
Benzene	ND		0.50	0.13	ug/L			09/03/13 12:36	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 12:36	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 12:36	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 12:36	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 12:36	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 12:36	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 12:36	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 12:36	1
Chloroethane	0.14	J	0.50	0.070	ug/L			09/03/13 12:36	1
Chloroform	0.43	J	0.50	0.14	ug/L			09/03/13 12:36	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 12:36	1
cis-1,2-Dichloroethene	2.0		0.50	0.12	ug/L			09/03/13 12:36	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 12:36	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 12:36	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 12:36	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 12:36	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 12:36	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 12:36	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 12:36	1
Methyl tert-butyl ether	0.35	J	0.50	0.12	ug/L			09/03/13 12:36	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 12:36	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Knowles_025_Street

Lab Sample ID: 480-44857-3

Date Collected: 08/27/13 09:55

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 12:36	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 12:36	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 12:36	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 12:36	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 12:36	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 12:36	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 12:36	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 12:36	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 12:36	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 12:36	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 12:36	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 12:36	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 12:36	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 12:36	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 12:36	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 12:36	1
Vinyl chloride	0.081	J	0.50	0.059	ug/L			09/03/13 12:36	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		09/03/13 12:36	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/03/13 12:36	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.2		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	81		70 - 130	09/09/13 19:29	09/10/13 14:44	1

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Knowles_030_Street

Lab Sample ID: 480-44857-4

Date Collected: 08/28/13 10:10

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 13:01	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 13:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 13:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 13:01	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 13:01	1
1,1-Dichloroethane	0.32	J	0.50	0.074	ug/L			09/03/13 13:01	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 13:01	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 13:01	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 13:01	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 13:01	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 13:01	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 13:01	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 13:01	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 13:01	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 13:01	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 13:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 13:01	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:01	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 13:01	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:01	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 13:01	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 13:01	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 13:01	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 13:01	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 13:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 13:01	1
Acetone	ND		2.5	0.54	ug/L			09/03/13 13:01	1
Benzene	0.28	J	0.50	0.13	ug/L			09/03/13 13:01	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 13:01	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 13:01	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 13:01	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 13:01	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 13:01	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 13:01	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 13:01	1
Chloroethane	0.28	J	0.50	0.070	ug/L			09/03/13 13:01	1
Chloroform	0.19	J	0.50	0.14	ug/L			09/03/13 13:01	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 13:01	1
cis-1,2-Dichloroethene	1.4		0.50	0.12	ug/L			09/03/13 13:01	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 13:01	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 13:01	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 13:01	1
Dichlorodifluoromethane	0.22	J	0.50	0.070	ug/L			09/03/13 13:01	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 13:01	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 13:01	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 13:01	1
Methyl tert-butyl ether	0.76		0.50	0.12	ug/L			09/03/13 13:01	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 13:01	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Knowles_030_Street

Lab Sample ID: 480-44857-4

Date Collected: 08/28/13 10:10

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 13:01	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 13:01	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 13:01	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 13:01	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 13:01	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 13:01	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 13:01	1
t-Butanol	4.5	J	10	2.5	ug/L			09/03/13 13:01	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 13:01	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 13:01	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 13:01	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 13:01	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 13:01	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 13:01	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 13:01	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 13:01	1
Vinyl chloride	0.14	J	0.50	0.059	ug/L			09/03/13 13:01	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	101		80 - 120		09/03/13 13:01	1
4-Bromofluorobenzene (Surr)	100		80 - 120		09/03/13 13:01	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	5.6		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	94		70 - 130	09/09/13 19:29	09/10/13 11:42	1

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Knowles_045_Street

Lab Sample ID: 480-44857-5

Date Collected: 08/28/13 09:05

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 13:26	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 13:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 13:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 13:26	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 13:26	1
1,1-Dichloroethane	0.19	J	0.50	0.074	ug/L			09/03/13 13:26	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 13:26	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 13:26	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 13:26	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 13:26	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:26	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 13:26	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 13:26	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 13:26	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 13:26	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 13:26	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 13:26	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 13:26	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:26	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 13:26	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:26	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 13:26	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 13:26	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 13:26	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 13:26	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 13:26	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 13:26	1
Acetone	ND		2.5	0.54	ug/L			09/03/13 13:26	1
Benzene	0.18	J	0.50	0.13	ug/L			09/03/13 13:26	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 13:26	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 13:26	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 13:26	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 13:26	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 13:26	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 13:26	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 13:26	1
Chloroethane	0.16	J	0.50	0.070	ug/L			09/03/13 13:26	1
Chloroform	0.18	J	0.50	0.14	ug/L			09/03/13 13:26	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 13:26	1
cis-1,2-Dichloroethene	0.91		0.50	0.12	ug/L			09/03/13 13:26	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 13:26	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 13:26	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 13:26	1
Dichlorodifluoromethane	0.24	J	0.50	0.070	ug/L			09/03/13 13:26	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 13:26	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 13:26	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 13:26	1
Methyl tert-butyl ether	0.32	J	0.50	0.12	ug/L			09/03/13 13:26	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 13:26	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Knowles_045_Street

Lab Sample ID: 480-44857-5

Date Collected: 08/28/13 09:05

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 13:26	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 13:26	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 13:26	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 13:26	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 13:26	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 13:26	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 13:26	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 13:26	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 13:26	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 13:26	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 13:26	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 13:26	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 13:26	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 13:26	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 13:26	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 13:26	1
Vinyl chloride	0.13	J	0.50	0.059	ug/L			09/03/13 13:26	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		09/03/13 13:26	1
4-Bromofluorobenzene (Surr)	100		80 - 120		09/03/13 13:26	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	83		70 - 130	09/09/13 19:29	09/10/13 12:22	1

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Meetinghouse_100_Road

Lab Sample ID: 480-44857-6

Date Collected: 08/27/13 11:55

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 13:51	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 13:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 13:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 13:51	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 13:51	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			09/03/13 13:51	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 13:51	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 13:51	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 13:51	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 13:51	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:51	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 13:51	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 13:51	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 13:51	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 13:51	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 13:51	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 13:51	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 13:51	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:51	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 13:51	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:51	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 13:51	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 13:51	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 13:51	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 13:51	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 13:51	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 13:51	1
Acetone	1.1	J	2.5	0.54	ug/L			09/03/13 13:51	1
Benzene	ND		0.50	0.13	ug/L			09/03/13 13:51	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 13:51	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 13:51	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 13:51	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 13:51	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 13:51	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 13:51	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 13:51	1
Chloroethane	ND		0.50	0.070	ug/L			09/03/13 13:51	1
Chloroform	0.39	J	0.50	0.14	ug/L			09/03/13 13:51	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 13:51	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			09/03/13 13:51	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 13:51	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 13:51	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 13:51	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 13:51	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 13:51	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 13:51	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 13:51	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			09/03/13 13:51	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 13:51	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Meetinghouse_100_Road

Lab Sample ID: 480-44857-6

Date Collected: 08/27/13 11:55

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 13:51	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 13:51	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 13:51	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 13:51	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 13:51	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 13:51	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 13:51	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 13:51	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 13:51	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 13:51	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 13:51	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 13:51	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 13:51	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 13:51	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 13:51	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 13:51	1
Vinyl chloride	ND		0.50	0.059	ug/L			09/03/13 13:51	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		09/03/13 13:51	1
4-Bromofluorobenzene (Surr)	100		80 - 120		09/03/13 13:51	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.9		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	106		70 - 130	09/09/13 19:29	09/10/13 12:44	1

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Old Orchard_180_Road

Lab Sample ID: 480-44857-7

Date Collected: 08/28/13 11:05

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 14:16	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 14:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 14:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 14:16	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 14:16	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			09/03/13 14:16	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 14:16	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 14:16	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 14:16	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 14:16	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 14:16	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 14:16	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 14:16	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 14:16	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 14:16	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 14:16	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 14:16	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 14:16	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 14:16	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 14:16	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 14:16	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 14:16	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 14:16	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 14:16	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 14:16	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 14:16	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 14:16	1
Acetone	ND		2.5	0.54	ug/L			09/03/13 14:16	1
Benzene	ND		0.50	0.13	ug/L			09/03/13 14:16	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 14:16	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 14:16	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 14:16	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 14:16	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 14:16	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 14:16	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 14:16	1
Chloroethane	ND		0.50	0.070	ug/L			09/03/13 14:16	1
Chloroform	0.51		0.50	0.14	ug/L			09/03/13 14:16	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 14:16	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			09/03/13 14:16	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 14:16	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 14:16	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 14:16	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 14:16	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 14:16	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 14:16	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 14:16	1
Methyl tert-butyl ether	0.19 J		0.50	0.12	ug/L			09/03/13 14:16	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 14:16	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Old Orchard_180_Road

Lab Sample ID: 480-44857-7

Date Collected: 08/28/13 11:05

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 14:16	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 14:16	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 14:16	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 14:16	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 14:16	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 14:16	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 14:16	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 14:16	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 14:16	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 14:16	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 14:16	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 14:16	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 14:16	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 14:16	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 14:16	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 14:16	1
Vinyl chloride	ND		0.50	0.059	ug/L			09/03/13 14:16	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		09/03/13 14:16	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/03/13 14:16	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.46		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	88		70 - 130	09/09/13 19:29	09/10/13 13:07	1

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Schoolhouse_325_Road-INF

Lab Sample ID: 480-44857-8

Date Collected: 08/27/13 13:05

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 14:41	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 14:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 14:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 14:41	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 14:41	1
1,1-Dichloroethane	0.37	J	0.50	0.074	ug/L			09/03/13 14:41	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 14:41	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 14:41	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 14:41	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 14:41	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 14:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 14:41	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 14:41	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 14:41	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 14:41	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 14:41	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 14:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 14:41	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 14:41	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 14:41	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 14:41	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 14:41	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 14:41	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 14:41	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 14:41	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 14:41	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 14:41	1
Acetone	1.4	J	2.5	0.54	ug/L			09/03/13 14:41	1
Benzene	0.63		0.50	0.13	ug/L			09/03/13 14:41	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 14:41	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 14:41	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 14:41	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 14:41	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 14:41	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 14:41	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 14:41	1
Chloroethane	0.59		0.50	0.070	ug/L			09/03/13 14:41	1
Chloroform	ND		0.50	0.14	ug/L			09/03/13 14:41	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 14:41	1
cis-1,2-Dichloroethene	2.4		0.50	0.12	ug/L			09/03/13 14:41	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 14:41	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 14:41	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 14:41	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 14:41	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 14:41	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 14:41	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 14:41	1
Methyl tert-butyl ether	1.7		0.50	0.12	ug/L			09/03/13 14:41	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 14:41	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Schoolhouse_325_Road-INF

Lab Sample ID: 480-44857-8

Date Collected: 08/27/13 13:05

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 14:41	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 14:41	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 14:41	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 14:41	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 14:41	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 14:41	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 14:41	1
t-Butanol	9.5	J	10	2.5	ug/L			09/03/13 14:41	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 14:41	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 14:41	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 14:41	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 14:41	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 14:41	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 14:41	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 14:41	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 14:41	1
Vinyl chloride	0.21	J	0.50	0.059	ug/L			09/03/13 14:41	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	106		80 - 120		09/03/13 14:41	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/03/13 14:41	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	7.7		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	72		70 - 130	09/09/13 19:29	09/10/13 13:30	1

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Schoolhouse_325_Road-MID

Lab Sample ID: 480-44857-9

Date Collected: 08/27/13 13:00

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 15:06	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 15:06	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 15:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 15:06	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 15:06	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			09/03/13 15:06	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 15:06	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 15:06	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 15:06	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 15:06	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 15:06	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 15:06	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 15:06	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 15:06	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 15:06	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 15:06	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 15:06	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 15:06	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 15:06	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 15:06	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 15:06	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 15:06	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 15:06	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 15:06	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 15:06	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 15:06	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 15:06	1
Acetone	0.57	J	2.5	0.54	ug/L			09/03/13 15:06	1
Benzene	ND		0.50	0.13	ug/L			09/03/13 15:06	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 15:06	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 15:06	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 15:06	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 15:06	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 15:06	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 15:06	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 15:06	1
Chloroethane	ND		0.50	0.070	ug/L			09/03/13 15:06	1
Chloroform	ND		0.50	0.14	ug/L			09/03/13 15:06	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 15:06	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			09/03/13 15:06	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 15:06	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 15:06	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 15:06	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 15:06	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 15:06	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 15:06	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 15:06	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			09/03/13 15:06	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 15:06	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Schoolhouse_325_Road-MID

Lab Sample ID: 480-44857-9

Date Collected: 08/27/13 13:00

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 15:06	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 15:06	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 15:06	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 15:06	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 15:06	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 15:06	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 15:06	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 15:06	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 15:06	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 15:06	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 15:06	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 15:06	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 15:06	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 15:06	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 15:06	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 15:06	1
Vinyl chloride	ND		0.50	0.059	ug/L			09/03/13 15:06	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		09/03/13 15:06	1
4-Bromofluorobenzene (Surr)	101		80 - 120		09/03/13 15:06	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	97		70 - 130	09/09/13 19:29	09/10/13 15:30	1

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Schoolhouse_325_Road-EFF

Lab Sample ID: 480-44857-10

Date Collected: 08/27/13 12:55

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 15:31	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 15:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 15:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 15:31	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 15:31	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			09/03/13 15:31	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 15:31	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 15:31	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 15:31	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 15:31	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 15:31	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 15:31	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 15:31	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 15:31	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 15:31	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 15:31	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 15:31	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 15:31	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 15:31	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 15:31	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 15:31	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 15:31	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 15:31	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 15:31	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 15:31	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 15:31	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 15:31	1
Acetone	ND		2.5	0.54	ug/L			09/03/13 15:31	1
Benzene	ND		0.50	0.13	ug/L			09/03/13 15:31	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 15:31	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 15:31	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 15:31	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 15:31	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 15:31	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 15:31	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 15:31	1
Chloroethane	ND		0.50	0.070	ug/L			09/03/13 15:31	1
Chloroform	ND		0.50	0.14	ug/L			09/03/13 15:31	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 15:31	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			09/03/13 15:31	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 15:31	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 15:31	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 15:31	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 15:31	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 15:31	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 15:31	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 15:31	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			09/03/13 15:31	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 15:31	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Schoolhouse_325_Road-EFF

Lab Sample ID: 480-44857-10

Date Collected: 08/27/13 12:55

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 15:31	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 15:31	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 15:31	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 15:31	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 15:31	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 15:31	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 15:31	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 15:31	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 15:31	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 15:31	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 15:31	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 15:31	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 15:31	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 15:31	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 15:31	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 15:31	1
Vinyl chloride	ND		0.50	0.059	ug/L			09/03/13 15:31	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		09/03/13 15:31	1
4-Bromofluorobenzene (Surr)	100		80 - 120		09/03/13 15:31	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	91		70 - 130	09/09/13 19:29	09/10/13 15:53	1

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-44857-11

Date Collected: 08/27/13 00:00

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 15:57	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 15:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 15:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 15:57	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 15:57	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			09/03/13 15:57	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 15:57	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 15:57	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 15:57	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 15:57	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 15:57	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 15:57	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 15:57	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 15:57	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 15:57	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 15:57	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 15:57	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 15:57	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 15:57	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 15:57	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 15:57	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 15:57	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 15:57	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 15:57	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 15:57	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 15:57	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 15:57	1
Acetone	9.9		2.5	0.54	ug/L			09/03/13 15:57	1
Benzene	ND		0.50	0.13	ug/L			09/03/13 15:57	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 15:57	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 15:57	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 15:57	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 15:57	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 15:57	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 15:57	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 15:57	1
Chloroethane	ND		0.50	0.070	ug/L			09/03/13 15:57	1
Chloroform	ND		0.50	0.14	ug/L			09/03/13 15:57	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 15:57	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			09/03/13 15:57	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 15:57	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 15:57	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 15:57	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 15:57	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 15:57	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 15:57	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 15:57	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			09/03/13 15:57	1
Methylene Chloride	0.36	J	0.50	0.25	ug/L			09/03/13 15:57	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-44857-11

Date Collected: 08/27/13 00:00

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 15:57	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 15:57	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 15:57	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 15:57	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 15:57	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 15:57	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 15:57	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 15:57	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 15:57	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 15:57	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 15:57	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 15:57	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 15:57	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 15:57	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 15:57	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 15:57	1
Vinyl chloride	ND		0.50	0.059	ug/L			09/03/13 15:57	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		09/03/13 15:57	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/03/13 15:57	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.047	J	0.20	0.040	ug/L		09/09/13 19:29	09/10/13 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	72		70 - 130	09/09/13 19:29	09/10/13 16:16	1

Surrogate Summary

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)
480-44857-1	Alston_080_Avenue	102	99
480-44857-2	Alston_255_Avenue	106	99
480-44857-3	Knowles_025_Street	105	99
480-44857-4	Knowles_030_Street	101	100
480-44857-5	Knowles_045_Street	107	100
480-44857-6	Meetinghouse_100_Road	107	100
480-44857-7	Old Orchard_180_Road	105	99
480-44857-8	Schoolhouse_325_Road-INF	106	102
480-44857-9	Schoolhouse_325_Road-MID	105	101
480-44857-10	Schoolhouse_325_Road-EFF	105	100
480-44857-11	Trip Blank	102	102
LCS 480-136991/5	Lab Control Sample	103	103
MB 480-136991/6	Method Blank	102	101

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	14DD8 (70-130)
480-44857-1	Alston_080_Avenue	90
480-44857-2	Alston_255_Avenue	81
480-44857-3	Knowles_025_Street	81
480-44857-4	Knowles_030_Street	94
480-44857-5	Knowles_045_Street	83
480-44857-6	Meetinghouse_100_Road	106
480-44857-7	Old Orchard_180_Road	88
480-44857-8	Schoolhouse_325_Road-INF	72
480-44857-9	Schoolhouse_325_Road-MID	97
480-44857-10	Schoolhouse_325_Road-EFF	91
480-44857-11	Trip Blank	72
LCS 200-60874/2-A	Lab Control Sample	109
MB 200-60874/1-A	Method Blank	88

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

QC Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-136991/6

Matrix: Water

Analysis Batch: 136991

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 11:11	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 11:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 11:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 11:11	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 11:11	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			09/03/13 11:11	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 11:11	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 11:11	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 11:11	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 11:11	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 11:11	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 11:11	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 11:11	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 11:11	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 11:11	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 11:11	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 11:11	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 11:11	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 11:11	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 11:11	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 11:11	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 11:11	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 11:11	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 11:11	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 11:11	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 11:11	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 11:11	1
Acetone	ND		2.5	0.54	ug/L			09/03/13 11:11	1
Benzene	ND		0.50	0.13	ug/L			09/03/13 11:11	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 11:11	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 11:11	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 11:11	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 11:11	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 11:11	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 11:11	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 11:11	1
Chloroethane	ND		0.50	0.070	ug/L			09/03/13 11:11	1
Chloroform	ND		0.50	0.14	ug/L			09/03/13 11:11	1
Chloromethane	0.142	J	0.50	0.063	ug/L			09/03/13 11:11	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			09/03/13 11:11	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 11:11	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 11:11	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 11:11	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 11:11	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 11:11	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 11:11	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 11:11	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			09/03/13 11:11	1

TestAmerica Buffalo

QC Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-136991/6

Matrix: Water

Analysis Batch: 136991

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 11:11	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 11:11	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 11:11	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 11:11	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 11:11	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 11:11	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 11:11	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 11:11	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 11:11	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 11:11	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 11:11	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 11:11	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 11:11	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 11:11	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 11:11	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 11:11	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 11:11	1
Vinyl chloride	ND		0.50	0.059	ug/L			09/03/13 11:11	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 11:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		09/03/13 11:11	1
4-Bromofluorobenzene (Surr)	101		80 - 120		09/03/13 11:11	1

Lab Sample ID: LCS 480-136991/5

Matrix: Water

Analysis Batch: 136991

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.28		ug/L		107	70 - 130
1,1,1-Trichloroethane	4.00	4.15		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.85		ug/L		96	70 - 130
1,1,2-Trichloroethane	4.00	3.98		ug/L		99	70 - 130
1,1-Dichloroethane	4.00	3.84		ug/L		96	70 - 130
1,1-Dichloroethene	4.00	3.21		ug/L		80	70 - 130
1,1-Dichloropropene	4.00	4.14		ug/L		104	70 - 130
1,2,3-Trichlorobenzene	4.00	4.55		ug/L		114	70 - 130
1,2,3-Trichloropropane	4.00	4.53		ug/L		113	70 - 130
1,2,4-Trichlorobenzene	4.00	4.39		ug/L		110	70 - 130
1,2,4-Trimethylbenzene	4.00	4.15		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	4.70		ug/L		117	70 - 130
1,2-Dibromoethane	4.00	4.17		ug/L		104	70 - 130
1,2-Dichlorobenzene	4.00	4.07		ug/L		102	70 - 130
1,2-Dichloroethane	4.00	4.37		ug/L		109	70 - 130
1,2-Dichloropropane	4.00	3.80		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	4.00	4.06		ug/L		102	70 - 130
1,3-Dichlorobenzene	4.00	4.00		ug/L		100	70 - 130
1,3-Dichloropropane	4.00	4.09		ug/L		102	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-136991/5

Matrix: Water

Analysis Batch: 136991

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.96		ug/L		99	70 - 130
2,2-Dichloropropane	4.00	4.23		ug/L		106	70 - 130
2-Butanone (MEK)	20.0	18.5		ug/L		92	70 - 130
2-Chlorotoluene	4.00	4.06		ug/L		102	70 - 130
4-Chlorotoluene	4.00	3.98		ug/L		100	70 - 130
4-Isopropyltoluene	4.00	4.12		ug/L		103	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	21.0		ug/L		105	70 - 130
Acetone	20.0	17.7		ug/L		88	70 - 130
Benzene	4.00	3.84		ug/L		96	70 - 130
Bromobenzene	4.00	4.04		ug/L		101	70 - 130
Bromochloromethane	4.00	4.02		ug/L		101	70 - 130
Bromoform	4.00	4.54		ug/L		113	70 - 130
Bromomethane	4.00	3.84		ug/L		96	70 - 130
Carbon tetrachloride	4.00	4.35		ug/L		109	70 - 130
Chlorobenzene	4.00	3.97		ug/L		99	70 - 130
Chlorodibromomethane	4.00	4.31		ug/L		108	70 - 130
Chloroethane	4.00	3.34		ug/L		83	70 - 130
Chloroform	4.00	4.08		ug/L		102	70 - 130
Chloromethane	4.00	3.74		ug/L		93	70 - 130
cis-1,2-Dichloroethene	4.00	3.94		ug/L		98	70 - 130
cis-1,3-Dichloropropene	4.00	4.00		ug/L		100	70 - 130
Dibromomethane	4.00	4.10		ug/L		102	70 - 130
Dichlorobromomethane	4.00	4.26		ug/L		107	70 - 130
Dichlorodifluoromethane	4.00	4.22		ug/L		105	70 - 130
Ethylbenzene	4.00	3.98		ug/L		99	70 - 130
Hexachlorobutadiene	4.00	4.41		ug/L		110	70 - 130
Isopropylbenzene	4.00	4.12		ug/L		103	70 - 130
Methyl tert-butyl ether	4.00	4.09		ug/L		102	70 - 130
Methylene Chloride	4.00	3.61		ug/L		90	70 - 130
Naphthalene	4.00	4.59		ug/L		115	70 - 130
n-Butylbenzene	4.00	4.23		ug/L		106	70 - 130
N-Propylbenzene	4.00	4.04		ug/L		101	70 - 130
sec-Butylbenzene	4.00	4.05		ug/L		101	70 - 130
Styrene	4.00	4.16		ug/L		104	70 - 130
tert-Butylbenzene	4.00	4.11		ug/L		103	70 - 130
Tetrachloroethene	4.00	3.85		ug/L		96	70 - 130
Toluene	4.00	3.91		ug/L		98	70 - 130
trans-1,2-Dichloroethene	4.00	3.63		ug/L		91	70 - 130
trans-1,3-Dichloropropene	4.00	4.04		ug/L		101	70 - 130
Trichloroethene	4.00	3.83		ug/L		96	70 - 130
Trichlorofluoromethane	4.00	4.84		ug/L		121	70 - 130
Vinyl chloride	4.00	4.00		ug/L		100	70 - 130
Xylenes, Total	12.0	12.4		ug/L		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	103		80 - 120
4-Bromofluorobenzene (Surr)	103		80 - 120

TestAmerica Buffalo

QC Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-60874/1-A

Matrix: Water

Analysis Batch: 60883

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 10:11	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	88		70 - 130				09/09/13 19:29	09/10/13 10:11	1

Lab Sample ID: LCS 200-60874/2-A

Matrix: Water

Analysis Batch: 60883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	8.00	10.3	E	ug/L		129	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	109		70 - 130				

QC Association Summary

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

GC/MS VOA

Analysis Batch: 136991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44857-1	Alston_080_Avenue	Total/NA	Water	524.2	
480-44857-2	Alston_255_Avenue	Total/NA	Water	524.2	
480-44857-3	Knowles_025_Street	Total/NA	Water	524.2	
480-44857-4	Knowles_030_Street	Total/NA	Water	524.2	
480-44857-5	Knowles_045_Street	Total/NA	Water	524.2	
480-44857-6	Meetinghouse_100_Road	Total/NA	Water	524.2	
480-44857-7	Old Orchard_180_Road	Total/NA	Water	524.2	
480-44857-8	Schoolhouse_325_Road-INF	Total/NA	Water	524.2	
480-44857-9	Schoolhouse_325_Road-MID	Total/NA	Water	524.2	
480-44857-10	Schoolhouse_325_Road-EFF	Total/NA	Water	524.2	
480-44857-11	Trip Blank	Total/NA	Water	524.2	
LCS 480-136991/5	Lab Control Sample	Total/NA	Water	524.2	
MB 480-136991/6	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 60874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44857-1	Alston_080_Avenue	Total/NA	Water	3535A	
480-44857-2	Alston_255_Avenue	Total/NA	Water	3535A	
480-44857-3	Knowles_025_Street	Total/NA	Water	3535A	
480-44857-4	Knowles_030_Street	Total/NA	Water	3535A	
480-44857-5	Knowles_045_Street	Total/NA	Water	3535A	
480-44857-6	Meetinghouse_100_Road	Total/NA	Water	3535A	
480-44857-7	Old Orchard_180_Road	Total/NA	Water	3535A	
480-44857-8	Schoolhouse_325_Road-INF	Total/NA	Water	3535A	
480-44857-9	Schoolhouse_325_Road-MID	Total/NA	Water	3535A	
480-44857-10	Schoolhouse_325_Road-EFF	Total/NA	Water	3535A	
480-44857-11	Trip Blank	Total/NA	Water	3535A	
LCS 200-60874/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-60874/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 60883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44857-1	Alston_080_Avenue	Total/NA	Water	522 MOD	60874
480-44857-2	Alston_255_Avenue	Total/NA	Water	522 MOD	60874
480-44857-3	Knowles_025_Street	Total/NA	Water	522 MOD	60874
480-44857-4	Knowles_030_Street	Total/NA	Water	522 MOD	60874
480-44857-5	Knowles_045_Street	Total/NA	Water	522 MOD	60874
480-44857-6	Meetinghouse_100_Road	Total/NA	Water	522 MOD	60874
480-44857-7	Old Orchard_180_Road	Total/NA	Water	522 MOD	60874
480-44857-8	Schoolhouse_325_Road-INF	Total/NA	Water	522 MOD	60874
480-44857-9	Schoolhouse_325_Road-MID	Total/NA	Water	522 MOD	60874
480-44857-10	Schoolhouse_325_Road-EFF	Total/NA	Water	522 MOD	60874
480-44857-11	Trip Blank	Total/NA	Water	522 MOD	60874
LCS 200-60874/2-A	Lab Control Sample	Total/NA	Water	522 MOD	60874
MB 200-60874/1-A	Method Blank	Total/NA	Water	522 MOD	60874

TestAmerica Buffalo

Lab Chronicle

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Alston_080_Avenue

Date Collected: 08/27/13 14:30

Date Received: 08/30/13 02:30

Lab Sample ID: 480-44857-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	136991	09/03/13 11:46	TRB	TAL BUF
Total/NA	Prep	3535A			60874	09/09/13 19:29	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	60883	09/10/13 10:34	BRM	TAL BUR

Client Sample ID: Alston_255_Avenue

Date Collected: 08/27/13 11:10

Date Received: 08/30/13 02:30

Lab Sample ID: 480-44857-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	136991	09/03/13 12:11	TRB	TAL BUF
Total/NA	Prep	3535A			60874	09/09/13 19:29	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	60883	09/10/13 14:21	BRM	TAL BUR

Client Sample ID: Knowles_025_Street

Date Collected: 08/27/13 09:55

Date Received: 08/30/13 02:30

Lab Sample ID: 480-44857-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	136991	09/03/13 12:36	TRB	TAL BUF
Total/NA	Prep	3535A			60874	09/09/13 19:29	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	60883	09/10/13 14:44	BRM	TAL BUR

Client Sample ID: Knowles_030_Street

Date Collected: 08/28/13 10:10

Date Received: 08/30/13 02:30

Lab Sample ID: 480-44857-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	136991	09/03/13 13:01	TRB	TAL BUF
Total/NA	Prep	3535A			60874	09/09/13 19:29	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	60883	09/10/13 11:42	BRM	TAL BUR

Client Sample ID: Knowles_045_Street

Date Collected: 08/28/13 09:05

Date Received: 08/30/13 02:30

Lab Sample ID: 480-44857-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	136991	09/03/13 13:26	TRB	TAL BUF
Total/NA	Prep	3535A			60874	09/09/13 19:29	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	60883	09/10/13 12:22	BRM	TAL BUR

TestAmerica Buffalo

Lab Chronicle

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Meetinghouse_100_Road

Lab Sample ID: 480-44857-6

Date Collected: 08/27/13 11:55

Matrix: Water

Date Received: 08/30/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	136991	09/03/13 13:51	TRB	TAL BUF
Total/NA	Prep	3535A			60874	09/09/13 19:29	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	60883	09/10/13 12:44	BRM	TAL BUR

Client Sample ID: Old Orchard_180_Road

Lab Sample ID: 480-44857-7

Date Collected: 08/28/13 11:05

Matrix: Water

Date Received: 08/30/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	136991	09/03/13 14:16	TRB	TAL BUF
Total/NA	Prep	3535A			60874	09/09/13 19:29	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	60883	09/10/13 13:07	BRM	TAL BUR

Client Sample ID: Schoolhouse_325_Road-INF

Lab Sample ID: 480-44857-8

Date Collected: 08/27/13 13:05

Matrix: Water

Date Received: 08/30/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	136991	09/03/13 14:41	TRB	TAL BUF
Total/NA	Prep	3535A			60874	09/09/13 19:29	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	60883	09/10/13 13:30	BRM	TAL BUR

Client Sample ID: Schoolhouse_325_Road-MID

Lab Sample ID: 480-44857-9

Date Collected: 08/27/13 13:00

Matrix: Water

Date Received: 08/30/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	136991	09/03/13 15:06	TRB	TAL BUF
Total/NA	Prep	3535A			60874	09/09/13 19:29	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	60883	09/10/13 15:30	BRM	TAL BUR

Client Sample ID: Schoolhouse_325_Road-EFF

Lab Sample ID: 480-44857-10

Date Collected: 08/27/13 12:55

Matrix: Water

Date Received: 08/30/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	136991	09/03/13 15:31	TRB	TAL BUF
Total/NA	Prep	3535A			60874	09/09/13 19:29	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	60883	09/10/13 15:53	BRM	TAL BUR

TestAmerica Buffalo

Lab Chronicle

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-44857-11

Date Collected: 08/27/13 00:00

Matrix: Water

Date Received: 08/30/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	136991	09/03/13 15:57	TRB	TAL BUF
Total/NA	Prep	3535A			60874	09/09/13 19:29	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	60883	09/10/13 16:16	BRM	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	10-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	956	03-31-09 *
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	N/A	03-31-09 *
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-01-09 *
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-08 *
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-09 *
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13 *
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	09-30-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Certification Summary

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13

Method Summary

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-44857-1	Alston_080_Avenue	Water	08/27/13 14:30	08/30/13 02:30
480-44857-2	Alston_255_Avenue	Water	08/27/13 11:10	08/30/13 02:30
480-44857-3	Knowles_025_Street	Water	08/27/13 09:55	08/30/13 02:30
480-44857-4	Knowles_030_Street	Water	08/28/13 10:10	08/30/13 02:30
480-44857-5	Knowles_045_Street	Water	08/28/13 09:05	08/30/13 02:30
480-44857-6	Meetinghouse_100_Road	Water	08/27/13 11:55	08/30/13 02:30
480-44857-7	Old Orchard_180_Road	Water	08/28/13 11:05	08/30/13 02:30
480-44857-8	Schoolhouse_325_Road-INF	Water	08/27/13 13:05	08/30/13 02:30
480-44857-9	Schoolhouse_325_Road-MID	Water	08/27/13 13:00	08/30/13 02:30
480-44857-10	Schoolhouse_325_Road-EFF	Water	08/27/13 12:55	08/30/13 02:30
480-44857-11	Trip Blank	Water	08/27/13 00:00	08/30/13 02:30

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
Drinking Water? Yes ☒ No ☐

Chain of Custody Record

TAL-4124 (1007)

Client ES+M		Project Manager Doug Heely		Date		Chain of Custody Number 237388	
Address 273 West Main Street		Telephone Number (Area Code)/Fax Number 508 236 1800 / 508 236 1811		Lab Number		Page 1 of 2	
City Norton		State MA		Zip Code 02766			
Project Name and Location (State) Eastham Landfill Eastham, MA		Site Contact Evan Cice		Lab Contact Steve Hartman			
Contract/Purchase Order/Quote No.		Carrier/Waybill Number		Analysis (Attach list if more space is needed)		Special Instructions/ Conditions of Receipt	

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives											
			Air	Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH					
~~Alston - 050 - Avenue~~																	
Alston - 080 - Avenue	8/27/13	1430	X														
Alston - 255 - Avenue	8/27/13	1110	X														
Alston - 285 - Avenue			X														
Eldie - 011 - Way			X														
Knowles - 025 - Street	8/27/13	0955	X														
Knowles - 030 - Street	8/28/13	1010	X														
Knowles - 045 - Street	8/29/13	0905	X														
Meetinghouse - 100 - Road	8/27/13	1155	X														
Old Orchard - 180 - Road	8/28/13	1105	X														

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown
 Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____
 1. Relinquished By _____ Date _____ Time _____
 2. Relinquished By _____ Date _____ Time _____
 3. Relinquished By _____ Date _____ Time _____

Sample Disposal
☒ Disposal By Lab ☐ Archive For _____ Months
 (A fee may be assessed if samples are retained longer than 1 month)

QC Requirements (Specify)
 1. Received By _____ Date _____ Time _____
 2. Received By _____ Date _____ Time _____
 3. Received By _____ Date _____ Time _____

Comments
2.1 #1

Login Sample Receipt Checklist

Client: Environmental Strategies and Management

Job Number: 480-44857-1

Login Number: 44857

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	False	Lab to check

Login Sample Receipt Checklist

Client: Environmental Strategies and Management

Job Number: 480-44857-1

Login Number: 44857

List Source: TestAmerica Burlington

List Number: 1

List Creation: 08/30/13 02:52 PM

Creator: Gagne, Eric M

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	No NUMBERS
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	1.6°C & 1.8°C. IR GUN ID 181. CF -0.2
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	IDs on containers do not match the COC. Logged in per COC.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

August 6, 2013

Leslie Benson and Dayle Lavine
55 Beths Avenue
Bristol, CT 06010

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
255 Schoolhouse Road

To whom it may concern:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/22/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.055J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Leslie Benson and Dayle Lavine
2. Street Address: 55 Beths Avenue
City/Town: Bristol, CT Zip Code: 06010

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 255 Schoolhouse Road
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 255 Schoolhouse Road

Lab Sample ID: 480-42477-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.88	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloromethane	0.076	J	0.50	0.063	ug/L	1			524.2	Total/NA
1,4-Dioxane	0.055	J	0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 255 Schoolhouse Road

Lab Sample ID: 480-42477-1

Date Collected: 07/22/13 09:40

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/24/13 15:03	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/24/13 15:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/24/13 15:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/24/13 15:03	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/24/13 15:03	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/24/13 15:03	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/24/13 15:03	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/24/13 15:03	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/24/13 15:03	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/24/13 15:03	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 15:03	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/24/13 15:03	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/24/13 15:03	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/24/13 15:03	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/24/13 15:03	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/24/13 15:03	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/24/13 15:03	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/24/13 15:03	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 15:03	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/24/13 15:03	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 15:03	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/24/13 15:03	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/24/13 15:03	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 15:03	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 15:03	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/24/13 15:03	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/24/13 15:03	1
Acetone	0.88	J	2.5	0.54	ug/L			07/24/13 15:03	1
Benzene	ND		0.50	0.13	ug/L			07/24/13 15:03	1
Bromobenzene	ND		0.50	0.13	ug/L			07/24/13 15:03	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/24/13 15:03	1
Bromoform	ND		0.50	0.13	ug/L			07/24/13 15:03	1
Bromomethane	ND		0.50	0.051	ug/L			07/24/13 15:03	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/24/13 15:03	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/24/13 15:03	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/24/13 15:03	1
Chloroethane	ND		0.50	0.070	ug/L			07/24/13 15:03	1
Chloroform	ND		0.50	0.14	ug/L			07/24/13 15:03	1
Chloromethane	0.076	J	0.50	0.063	ug/L			07/24/13 15:03	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/24/13 15:03	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/24/13 15:03	1
Dibromomethane	ND		0.50	0.17	ug/L			07/24/13 15:03	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/24/13 15:03	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/24/13 15:03	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/24/13 15:03	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/24/13 15:03	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/24/13 15:03	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/24/13 15:03	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/24/13 15:03	1

6

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 255 Schoolhouse Road

Lab Sample ID: 480-42477-1

Date Collected: 07/22/13 09:40

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/24/13 15:03	1
Naphthalene	ND		0.50	0.060	ug/L			07/24/13 15:03	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/24/13 15:03	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/24/13 15:03	1
o-Xylene	ND		0.50	0.044	ug/L			07/24/13 15:03	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/24/13 15:03	1
Styrene	ND		0.50	0.044	ug/L			07/24/13 15:03	1
t-Butanol	ND		10	2.5	ug/L			07/24/13 15:03	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/24/13 15:03	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/24/13 15:03	1
Toluene	ND		0.50	0.10	ug/L			07/24/13 15:03	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/24/13 15:03	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/24/13 15:03	1
Trichloroethene	ND		0.50	0.060	ug/L			07/24/13 15:03	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/24/13 15:03	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/24/13 15:03	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/24/13 15:03	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/24/13 15:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120					07/24/13 15:03	1
4-Bromofluorobenzene (Surr)	98		80 - 120					07/24/13 15:03	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.055	J	0.20	0.040	ug/L		07/24/13 22:25	07/26/13 00:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	83		70 - 130				07/24/13 22:25	07/26/13 00:19	1

August 6, 2013

Francis Kenny
25 Maple Street
Milford, MA 01757

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
115 Fairview Avenue

Dear Mr. Kenny:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/22/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Francis Kenny
2. Street Address: 25 Maple Street
City/Town: Milford Zip Code: 01757

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 115 Fairview Avenue
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 115 Fairview Ave

Lab Sample ID: 480-42477-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.56		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 115 Fairview Ave

Lab Sample ID: 480-42477-3

Date Collected: 07/22/13 10:25

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/24/13 15:54	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/24/13 15:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/24/13 15:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/24/13 15:54	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/24/13 15:54	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/24/13 15:54	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/24/13 15:54	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/24/13 15:54	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/24/13 15:54	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/24/13 15:54	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 15:54	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/24/13 15:54	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/24/13 15:54	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/24/13 15:54	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 115 Fairview Ave

Lab Sample ID: 480-42477-3

Date Collected: 07/22/13 10:25

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/24/13 15:54	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/24/13 15:54	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/24/13 15:54	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/24/13 15:54	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 15:54	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/24/13 15:54	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 15:54	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/24/13 15:54	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/24/13 15:54	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 15:54	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 15:54	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/24/13 15:54	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/24/13 15:54	1
Acetone	1.2	J	2.5	0.54	ug/L			07/24/13 15:54	1
Benzene	ND		0.50	0.13	ug/L			07/24/13 15:54	1
Bromobenzene	ND		0.50	0.13	ug/L			07/24/13 15:54	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/24/13 15:54	1
Bromoform	ND		0.50	0.13	ug/L			07/24/13 15:54	1
Bromomethane	ND		0.50	0.051	ug/L			07/24/13 15:54	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/24/13 15:54	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/24/13 15:54	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/24/13 15:54	1
Chloroethane	ND		0.50	0.070	ug/L			07/24/13 15:54	1
Chloroform	0.56		0.50	0.14	ug/L			07/24/13 15:54	1
Chloromethane	ND		0.50	0.063	ug/L			07/24/13 15:54	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/24/13 15:54	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/24/13 15:54	1
Dibromomethane	ND		0.50	0.17	ug/L			07/24/13 15:54	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/24/13 15:54	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/24/13 15:54	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/24/13 15:54	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/24/13 15:54	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/24/13 15:54	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/24/13 15:54	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/24/13 15:54	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/24/13 15:54	1
Naphthalene	ND		0.50	0.060	ug/L			07/24/13 15:54	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/24/13 15:54	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/24/13 15:54	1
o-Xylene	ND		0.50	0.044	ug/L			07/24/13 15:54	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/24/13 15:54	1
Styrene	ND		0.50	0.044	ug/L			07/24/13 15:54	1
t-Butanol	ND		10	2.5	ug/L			07/24/13 15:54	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/24/13 15:54	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/24/13 15:54	1
Toluene	ND		0.50	0.10	ug/L			07/24/13 15:54	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/24/13 15:54	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/24/13 15:54	1
Trichloroethene	ND		0.50	0.060	ug/L			07/24/13 15:54	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 115 Fairview Ave

Lab Sample ID: 480-42477-3

Date Collected: 07/22/13 10:25

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/24/13 15:54	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/24/13 15:54	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/24/13 15:54	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/24/13 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120					07/24/13 15:54	1
4-Bromofluorobenzene (Surr)	98		80 - 120					07/24/13 15:54	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/24/13 22:25	07/26/13 00:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	99		70 - 130				07/24/13 22:25	07/26/13 00:42	1

August 6, 2013

Thomas and Katherine Shea
91 Centre Street
Dover, MA 02030

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
65 Surrey Drive

Dear Mr. and Mrs. Shea:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/22/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.047J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Thomas and Katherine Shea
2. Street Address: 91 Centre Street
City/Town: Dover Zip Code: 02030

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 65 Surrey Drive
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 65 Surrey Drive**Lab Sample ID: 480-42477-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.65	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.51		0.50	0.14	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.41	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.047	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 65 Surrey Drive

Lab Sample ID: 480-42477-5

Date Collected: 07/22/13 11:10

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/24/13 16:50	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/24/13 16:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/24/13 16:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/24/13 16:50	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/24/13 16:50	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/24/13 16:50	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/24/13 16:50	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/24/13 16:50	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/24/13 16:50	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/24/13 16:50	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 16:50	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/24/13 16:50	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/24/13 16:50	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/24/13 16:50	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/24/13 16:50	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/24/13 16:50	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/24/13 16:50	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/24/13 16:50	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 16:50	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/24/13 16:50	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 16:50	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/24/13 16:50	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/24/13 16:50	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 16:50	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 16:50	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/24/13 16:50	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/24/13 16:50	1
Acetone	0.65	J	2.5	0.54	ug/L			07/24/13 16:50	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 65 Surrey Drive

Lab Sample ID: 480-42477-5

Date Collected: 07/22/13 11:10

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/24/13 16:50	1
Bromobenzene	ND		0.50	0.13	ug/L			07/24/13 16:50	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/24/13 16:50	1
Bromoform	ND		0.50	0.13	ug/L			07/24/13 16:50	1
Bromomethane	ND		0.50	0.051	ug/L			07/24/13 16:50	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/24/13 16:50	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/24/13 16:50	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/24/13 16:50	1
Chloroethane	ND		0.50	0.070	ug/L			07/24/13 16:50	1
Chloroform	0.51	J	0.50	0.14	ug/L			07/24/13 16:50	1
Chloromethane	ND		0.50	0.063	ug/L			07/24/13 16:50	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/24/13 16:50	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/24/13 16:50	1
Dibromomethane	ND		0.50	0.17	ug/L			07/24/13 16:50	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/24/13 16:50	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/24/13 16:50	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/24/13 16:50	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/24/13 16:50	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/24/13 16:50	1
Methyl tert-butyl ether	0.41	J	0.50	0.12	ug/L			07/24/13 16:50	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/24/13 16:50	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/24/13 16:50	1
Naphthalene	ND		0.50	0.060	ug/L			07/24/13 16:50	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/24/13 16:50	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/24/13 16:50	1
o-Xylene	ND		0.50	0.044	ug/L			07/24/13 16:50	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/24/13 16:50	1
Styrene	ND		0.50	0.044	ug/L			07/24/13 16:50	1
t-Butanol	ND		10	2.5	ug/L			07/24/13 16:50	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/24/13 16:50	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/24/13 16:50	1
Toluene	ND		0.50	0.10	ug/L			07/24/13 16:50	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/24/13 16:50	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/24/13 16:50	1
Trichloroethene	ND		0.50	0.060	ug/L			07/24/13 16:50	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/24/13 16:50	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/24/13 16:50	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/24/13 16:50	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/24/13 16:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	106		80 - 120					07/24/13 16:50	1
4-Bromofluorobenzene (Surr)	100		80 - 120					07/24/13 16:50	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.047	J	0.20	0.040	ug/L		07/24/13 22:25	07/26/13 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	78		70 - 130				07/24/13 22:25	07/26/13 01:05	1

TestAmerica Buffalo

August 6, 2013

Austin Flint
600 West 115th Street, Apt 102
New York, NY 10025

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
55 Redberry Lane

Dear Mr. Flint:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/22/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

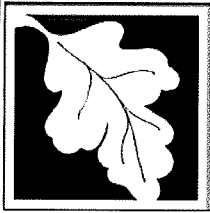
The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.047J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Austin Flint
2. Street Address: 600 West 115th St Apt 102
City/Town: New York, NY Zip Code: 10025

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 55 Redberry Lane
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 55 Redberry Lane

Lab Sample ID: 480-42477-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.68	J	2.5	0.54	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.047	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 55 Redberry Lane

Lab Sample ID: 480-42477-7

Date Collected: 07/22/13 11:55

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/24/13 17:41	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/24/13 17:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/24/13 17:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/24/13 17:41	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/24/13 17:41	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/24/13 17:41	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/24/13 17:41	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/24/13 17:41	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/24/13 17:41	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/24/13 17:41	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 17:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/24/13 17:41	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/24/13 17:41	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/24/13 17:41	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/24/13 17:41	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/24/13 17:41	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/24/13 17:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/24/13 17:41	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 17:41	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/24/13 17:41	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 17:41	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/24/13 17:41	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/24/13 17:41	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 17:41	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 17:41	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/24/13 17:41	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/24/13 17:41	1
Acetone	0.68	J	2.5	0.54	ug/L			07/24/13 17:41	1
Benzene	ND		0.50	0.13	ug/L			07/24/13 17:41	1
Bromobenzene	ND		0.50	0.13	ug/L			07/24/13 17:41	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/24/13 17:41	1
Bromoform	ND		0.50	0.13	ug/L			07/24/13 17:41	1
Bromomethane	ND		0.50	0.051	ug/L			07/24/13 17:41	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/24/13 17:41	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/24/13 17:41	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/24/13 17:41	1
Chloroethane	ND		0.50	0.070	ug/L			07/24/13 17:41	1
Chloroform	ND		0.50	0.14	ug/L			07/24/13 17:41	1
Chloromethane	ND		0.50	0.063	ug/L			07/24/13 17:41	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/24/13 17:41	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/24/13 17:41	1
Dibromomethane	ND		0.50	0.17	ug/L			07/24/13 17:41	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/24/13 17:41	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/24/13 17:41	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/24/13 17:41	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/24/13 17:41	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/24/13 17:41	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/24/13 17:41	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/24/13 17:41	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 55 Redberry Lane

Lab Sample ID: 480-42477-7

Date Collected: 07/22/13 11:55

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/24/13 17:41	1
Naphthalene	ND		0.50	0.060	ug/L			07/24/13 17:41	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/24/13 17:41	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/24/13 17:41	1
o-Xylene	ND		0.50	0.044	ug/L			07/24/13 17:41	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/24/13 17:41	1
Styrene	ND		0.50	0.044	ug/L			07/24/13 17:41	1
t-Butanol	ND		10	2.5	ug/L			07/24/13 17:41	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/24/13 17:41	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/24/13 17:41	1
Toluene	ND		0.50	0.10	ug/L			07/24/13 17:41	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/24/13 17:41	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/24/13 17:41	1
Trichloroethene	ND		0.50	0.060	ug/L			07/24/13 17:41	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/24/13 17:41	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/24/13 17:41	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/24/13 17:41	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/24/13 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		07/24/13 17:41	1
4-Bromofluorobenzene (Surr)	100		80 - 120		07/24/13 17:41	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.047	J	0.20	0.040	ug/L		07/24/13 22:25	07/26/13 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	93		70 - 130	07/24/13 22:25	07/26/13 01:29	1

August 6, 2013

George Randall
27 Fairchild Drive
Holden, MA 01520

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
30 Deerfield Lane

Dear Mr. Randall:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/22/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: George Randall
2. Street Address: 27 Fairchild Drive
City/Town: Holden Zip Code: 01520

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 30 Deerfield Lane
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in **Section A** is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 30 Deerfield Lane

Lab Sample ID: 480-42477-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.89	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	0.17	J	0.50	0.14	ug/L	1			524.2	Total/NA

Client Sample ID: 30 Deerfield Lane

Lab Sample ID: 480-42477-9

Date Collected: 07/22/13 12:35

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/24/13 18:32	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/24/13 18:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/24/13 18:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/24/13 18:32	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/24/13 18:32	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/24/13 18:32	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/24/13 18:32	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/24/13 18:32	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/24/13 18:32	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/24/13 18:32	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 18:32	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/24/13 18:32	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/24/13 18:32	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/24/13 18:32	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 30 Deerfield Lane

Lab Sample ID: 480-42477-9

Date Collected: 07/22/13 12:35

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/24/13 18:32	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/24/13 18:32	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/24/13 18:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/24/13 18:32	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 18:32	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/24/13 18:32	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 18:32	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/24/13 18:32	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/24/13 18:32	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 18:32	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 18:32	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/24/13 18:32	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/24/13 18:32	1
Acetone	0.89	J	2.5	0.54	ug/L			07/24/13 18:32	1
Benzene	ND		0.50	0.13	ug/L			07/24/13 18:32	1
Bromobenzene	ND		0.50	0.13	ug/L			07/24/13 18:32	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/24/13 18:32	1
Bromoform	ND		0.50	0.13	ug/L			07/24/13 18:32	1
Bromomethane	ND		0.50	0.051	ug/L			07/24/13 18:32	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/24/13 18:32	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/24/13 18:32	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/24/13 18:32	1
Chloroethane	ND		0.50	0.070	ug/L			07/24/13 18:32	1
Chloroform	0.17	J	0.50	0.14	ug/L			07/24/13 18:32	1
Chloromethane	ND		0.50	0.063	ug/L			07/24/13 18:32	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/24/13 18:32	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/24/13 18:32	1
Dibromomethane	ND		0.50	0.17	ug/L			07/24/13 18:32	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/24/13 18:32	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/24/13 18:32	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/24/13 18:32	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/24/13 18:32	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/24/13 18:32	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/24/13 18:32	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/24/13 18:32	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/24/13 18:32	1
Naphthalene	ND		0.50	0.060	ug/L			07/24/13 18:32	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/24/13 18:32	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/24/13 18:32	1
o-Xylene	ND		0.50	0.044	ug/L			07/24/13 18:32	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/24/13 18:32	1
Styrene	ND		0.50	0.044	ug/L			07/24/13 18:32	1
t-Butanol	ND		10	2.5	ug/L			07/24/13 18:32	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/24/13 18:32	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/24/13 18:32	1
Toluene	ND		0.50	0.10	ug/L			07/24/13 18:32	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/24/13 18:32	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/24/13 18:32	1
Trichloroethene	ND		0.50	0.060	ug/L			07/24/13 18:32	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 30 Deerfield Lane

Lab Sample ID: 480-42477-9

Date Collected: 07/22/13 12:35

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/24/13 18:32	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/24/13 18:32	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/24/13 18:32	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/24/13 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	106		80 - 120		07/24/13 18:32	1
4-Bromofluorobenzene (Surr)	97		80 - 120		07/24/13 18:32	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/24/13 22:25	07/26/13 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	74		70 - 130	07/24/13 22:25	07/26/13 01:52	1

August 6, 2013

Bruce Johnson
P.O. Box 613
Northampton, MA 01061

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
115 Alston Avenue

Dear Mr. Johnson:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/22/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.12J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Bruce Johnson
2. Street Address: P.O. Box 613
City/Town: Northampton Zip Code: 01061

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 115 Alston Avenue
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.
Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 115 Alston Ave

Lab Sample ID: 480-42477-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.69		0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.12	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 115 Alston Ave

Lab Sample ID: 480-42477-11

Date Collected: 07/22/13 13:30

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/24/13 19:23	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/24/13 19:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/24/13 19:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/24/13 19:23	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/24/13 19:23	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/24/13 19:23	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/24/13 19:23	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/24/13 19:23	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/24/13 19:23	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/24/13 19:23	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 19:23	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/24/13 19:23	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/24/13 19:23	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/24/13 19:23	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/24/13 19:23	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/24/13 19:23	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/24/13 19:23	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/24/13 19:23	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 19:23	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/24/13 19:23	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 19:23	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/24/13 19:23	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/24/13 19:23	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 19:23	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 19:23	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/24/13 19:23	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/24/13 19:23	1
Acetone	ND		2.5	0.54	ug/L			07/24/13 19:23	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 115 Alston Ave

Lab Sample ID: 480-42477-11

Date Collected: 07/22/13 13:30

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/24/13 19:23	1
Bromobenzene	ND		0.50	0.13	ug/L			07/24/13 19:23	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/24/13 19:23	1
Bromoform	ND		0.50	0.13	ug/L			07/24/13 19:23	1
Bromomethane	ND		0.50	0.051	ug/L			07/24/13 19:23	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/24/13 19:23	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/24/13 19:23	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/24/13 19:23	1
Chloroethane	ND		0.50	0.070	ug/L			07/24/13 19:23	1
Chloroform	ND		0.50	0.14	ug/L			07/24/13 19:23	1
Chloromethane	ND		0.50	0.063	ug/L			07/24/13 19:23	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/24/13 19:23	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/24/13 19:23	1
Dibromomethane	ND		0.50	0.17	ug/L			07/24/13 19:23	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/24/13 19:23	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/24/13 19:23	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/24/13 19:23	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/24/13 19:23	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/24/13 19:23	1
Methyl tert-butyl ether	0.69		0.50	0.12	ug/L			07/24/13 19:23	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/24/13 19:23	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/24/13 19:23	1
Naphthalene	ND		0.50	0.060	ug/L			07/24/13 19:23	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/24/13 19:23	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/24/13 19:23	1
o-Xylene	ND		0.50	0.044	ug/L			07/24/13 19:23	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/24/13 19:23	1
Styrene	ND		0.50	0.044	ug/L			07/24/13 19:23	1
t-Butanol	ND		10	2.5	ug/L			07/24/13 19:23	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/24/13 19:23	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/24/13 19:23	1
Toluene	ND		0.50	0.10	ug/L			07/24/13 19:23	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/24/13 19:23	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/24/13 19:23	1
Trichloroethene	ND		0.50	0.060	ug/L			07/24/13 19:23	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/24/13 19:23	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/24/13 19:23	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/24/13 19:23	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/24/13 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		07/24/13 19:23	1
4-Bromofluorobenzene (Surr)	99		80 - 120		07/24/13 19:23	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.12	J	0.20	0.040	ug/L		07/24/13 22:25	07/26/13 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	86		70 - 130	07/24/13 22:25	07/26/13 02:38	1

TestAmerica Buffalo

August 6, 2013

Randall Gill
P.O. Box 252
Orleans, MA 02653

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
70 Glacier Hills Road

Dear Mr. Gill:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/22/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4 24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Randall Gill
2. Street Address: P.O. Box 252
City/Town: Orleans Zip Code: 02653

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 70 Glacier Hills Road
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in **Section A** is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



Client Sample ID: 70 Glacier Hills

Lab Sample ID: 480-42477-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.5	J	2.5	0.54	ug/L	1		524.2	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 70 Glacier Hills

Lab Sample ID: 480-42477-13

Date Collected: 07/22/13 14:10

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/24/13 20:13	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/24/13 20:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/24/13 20:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/24/13 20:13	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/24/13 20:13	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/24/13 20:13	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/24/13 20:13	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/24/13 20:13	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/24/13 20:13	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/24/13 20:13	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 20:13	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/24/13 20:13	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/24/13 20:13	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/24/13 20:13	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/24/13 20:13	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/24/13 20:13	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/24/13 20:13	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/24/13 20:13	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 20:13	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/24/13 20:13	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/24/13 20:13	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/24/13 20:13	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/24/13 20:13	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 20:13	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/24/13 20:13	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/24/13 20:13	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/24/13 20:13	1
Acetone	1.5	J	2.5	0.54	ug/L			07/24/13 20:13	1
Benzene	ND		0.50	0.13	ug/L			07/24/13 20:13	1
Bromobenzene	ND		0.50	0.13	ug/L			07/24/13 20:13	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/24/13 20:13	1
Bromoform	ND		0.50	0.13	ug/L			07/24/13 20:13	1
Bromomethane	ND		0.50	0.051	ug/L			07/24/13 20:13	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/24/13 20:13	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/24/13 20:13	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/24/13 20:13	1
Chloroethane	ND		0.50	0.070	ug/L			07/24/13 20:13	1
Chloroform	ND		0.50	0.14	ug/L			07/24/13 20:13	1
Chloromethane	ND		0.50	0.063	ug/L			07/24/13 20:13	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/24/13 20:13	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/24/13 20:13	1
Dibromomethane	ND		0.50	0.17	ug/L			07/24/13 20:13	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/24/13 20:13	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/24/13 20:13	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/24/13 20:13	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/24/13 20:13	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/24/13 20:13	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/24/13 20:13	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/24/13 20:13	1

6

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42477-1

Client Sample ID: 70 Glacier Hills

Lab Sample ID: 480-42477-13

Date Collected: 07/22/13 14:10

Matrix: Water

Date Received: 07/24/13 02:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/24/13 20:13	1
Naphthalene	ND		0.50	0.060	ug/L			07/24/13 20:13	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/24/13 20:13	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/24/13 20:13	1
o-Xylene	ND		0.50	0.044	ug/L			07/24/13 20:13	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/24/13 20:13	1
Styrene	ND		0.50	0.044	ug/L			07/24/13 20:13	1
t-Butanol	ND		10	2.5	ug/L			07/24/13 20:13	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/24/13 20:13	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/24/13 20:13	1
Toluene	ND		0.50	0.10	ug/L			07/24/13 20:13	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/24/13 20:13	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/24/13 20:13	1
Trichloroethene	ND		0.50	0.060	ug/L			07/24/13 20:13	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/24/13 20:13	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/24/13 20:13	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/24/13 20:13	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/24/13 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		07/24/13 20:13	1
4-Bromofluorobenzene (Surr)	98		80 - 120		07/24/13 20:13	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/24/13 22:25	07/26/13 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	86		70 - 130	07/24/13 22:25	07/26/13 03:01	1

August 7, 2013

Peter Labranche
P.O. Box 1232
Eastham, MA 02642

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
180 Schoolhouse Road

Dear Mr. Labranche:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/23/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

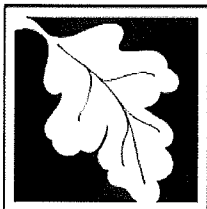
The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.093J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road

City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Peter Labranche

2. Street Address: P.O. Box 1232

City/Town: Eastham Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 180 Schoolhouse Road

City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____

(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 180 Schoolhouse Road

Lab Sample ID: 480-42551-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,4-Dioxane	0.093	J	0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample ID: 180 Schoolhouse Road

Lab Sample ID: 480-42551-3

Date Collected: 07/23/13 10:40

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 14:22	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 14:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 14:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 14:22	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 14:22	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 14:22	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 14:22	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 14:22	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 14:22	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 14:22	1
1,2,4-Trichlorobenzene	ND *		0.50	0.13	ug/L			07/29/13 14:22	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 14:22	1
1,2-Dibromo-3-Chloropropane	ND *		0.50	0.21	ug/L			07/29/13 14:22	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 14:22	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 180 Schoolhouse Road

Lab Sample ID: 480-42551-3

Date Collected: 07/23/13 10:40

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 14:22	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 14:22	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 14:22	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 14:22	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 14:22	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 14:22	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 14:22	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 14:22	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 14:22	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 14:22	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 14:22	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 14:22	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 14:22	1
Acetone	ND	*	2.5	0.54	ug/L			07/29/13 14:22	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 14:22	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 14:22	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 14:22	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 14:22	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 14:22	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 14:22	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 14:22	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 14:22	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 14:22	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 14:22	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 14:22	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 14:22	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 14:22	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 14:22	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 14:22	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 14:22	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 14:22	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 14:22	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 14:22	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 14:22	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 14:22	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 14:22	1
Naphthalene	ND	*	0.50	0.060	ug/L			07/29/13 14:22	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 14:22	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 14:22	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 14:22	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 14:22	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 14:22	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 14:22	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 14:22	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 14:22	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 14:22	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 14:22	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 14:22	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 14:22	1

6

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 180 Schoolhouse Road

Lab Sample ID: 480-42551-3

Date Collected: 07/23/13 10:40

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 14:22	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 14:22	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 14:22	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120					07/29/13 14:22	1
4-Bromofluorobenzene (Surr)	102		80 - 120					07/29/13 14:22	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.093	J	0.20	0.040	ug/L		07/26/13 11:16	07/26/13 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	90		70 - 130				07/26/13 11:16	07/26/13 14:21	1

August 7, 2013

Diane Edwards, Trustee
26 Baby Pt Crescent
Toronto, Canada M6S2B8

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
20 Redberry Lane

Dear Ms. Edwards:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/23/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.046J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Diane Edwards, Trustee
2. Street Address: 26 Baby Pt Crescent
City/Town: Toronto, Canada Zip Code: M6S2B8

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 20 Redberry Lane
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 20 Redberry Lane

Lab Sample ID: 480-42551-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.5	J *	2.5	0.54	ug/L	1			524.2	Total/NA
Methyl tert-butyl ether	0.14	J	0.50	0.12	ug/L	1			524.2	Total/NA
1,4-Dioxane	0.046	J	0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample ID: 20 Redberry Lane

Lab Sample ID: 480-42551-5

Date Collected: 07/23/13 11:25

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 15:12	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 15:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 15:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 15:12	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 15:12	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 15:12	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 15:12	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 15:12	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 15:12	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 15:12	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			07/29/13 15:12	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 15:12	1
1,2-Dibromo-3-Chloropropane	ND	*	0.50	0.21	ug/L			07/29/13 15:12	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 15:12	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 15:12	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 15:12	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 15:12	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 15:12	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 15:12	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 15:12	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 15:12	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 15:12	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 15:12	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 15:12	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 15:12	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 15:12	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 15:12	1
Acetone	1.5	J *	2.5	0.54	ug/L			07/29/13 15:12	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 20 Redberry Lane

Lab Sample ID: 480-42551-5

Date Collected: 07/23/13 11:25

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/29/13 15:12	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 15:12	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 15:12	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 15:12	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 15:12	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 15:12	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 15:12	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 15:12	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 15:12	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 15:12	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 15:12	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 15:12	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 15:12	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 15:12	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 15:12	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 15:12	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 15:12	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 15:12	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 15:12	1
Methyl tert-butyl ether	0.14	J	0.50	0.12	ug/L			07/29/13 15:12	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 15:12	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 15:12	1
Naphthalene	ND	*	0.50	0.060	ug/L			07/29/13 15:12	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 15:12	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 15:12	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 15:12	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 15:12	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 15:12	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 15:12	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 15:12	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 15:12	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 15:12	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 15:12	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 15:12	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 15:12	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 15:12	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 15:12	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 15:12	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	109		80 - 120		07/29/13 15:12	1
4-Bromofluorobenzene (Surr)	103		80 - 120		07/29/13 15:12	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.046	J	0.20	0.040	ug/L		07/26/13 11:16	07/26/13 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	86		70 - 130	07/26/13 11:16	07/26/13 14:54	1

TestAmerica Buffalo

August 7, 2013

Elsa Auerbach
33 Sedgwick Street
Jamaica Plain, MA 02130

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
40 Starlight Lane

Dear Ms. Auerbach:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/23/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

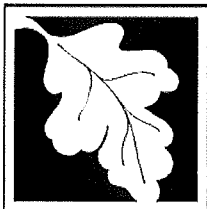
The sampling results indicate that 1,4-dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.83. The reported concentration is greater than the most restrictive 0.3 ug/L drinking water guideline but less than the 1.5 ug/L Bottled Water Action Level. This Action Level of 1.5 ug/L is based on Site-specific conditions evaluated by a qualified risk assessor who has determined that no significant risk exists below this concentration. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-Dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road

City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Elsa Auerbach

2. Street Address: 33 Sedgwick Street

City/Town: Jamaica Plain Zip Code: 02130

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 40 Starlight Lane

City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

- ☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 40 Starlight Lane

Lab Sample ID: 480-42551-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.5	J*	2.5	0.54	ug/L			1	524.2	Total/NA
Chloroform	0.27	J	0.50	0.14	ug/L			1	524.2	Total/NA
Dichlorodifluoromethane	0.16	J	0.50	0.070	ug/L			1	524.2	Total/NA
1,4-Dioxane	0.83		0.20	0.040	ug/L			1	522 MOD	Total/NA

Lab Sample ID: 480-42551-8

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 40 Starlight Lane

Lab Sample ID: 480-42551-7

Date Collected: 07/23/13 12:30

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 16:01	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 16:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 16:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 16:01	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 16:01	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 16:01	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 16:01	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 16:01	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 16:01	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 16:01	1
1,2,4-Trichlorobenzene	ND *		0.50	0.13	ug/L			07/29/13 16:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 16:01	1
1,2-Dibromo-3-Chloropropane	ND *		0.50	0.21	ug/L			07/29/13 16:01	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 16:01	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 16:01	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 16:01	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 16:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 16:01	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 16:01	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 16:01	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 16:01	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 16:01	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 16:01	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 16:01	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 16:01	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 16:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 16:01	1
Acetone	1.5 J *		2.5	0.54	ug/L			07/29/13 16:01	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 16:01	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 16:01	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 16:01	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 16:01	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 16:01	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 16:01	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 16:01	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 16:01	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 16:01	1
Chloroform	0.27 J		0.50	0.14	ug/L			07/29/13 16:01	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 16:01	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 16:01	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 16:01	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 16:01	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 16:01	1
Dichlorodifluoromethane	0.16 J		0.50	0.070	ug/L			07/29/13 16:01	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 16:01	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 16:01	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 16:01	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 16:01	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 16:01	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 40 Starlight Lane

Lab Sample ID: 480-42551-7

Date Collected: 07/23/13 12:30

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 16:01	1
Naphthalene	ND	*	0.50	0.060	ug/L			07/29/13 16:01	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 16:01	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 16:01	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 16:01	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 16:01	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 16:01	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 16:01	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 16:01	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 16:01	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 16:01	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 16:01	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 16:01	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 16:01	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 16:01	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 16:01	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 16:01	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		07/29/13 16:01	1
4-Bromofluorobenzene (Surr)	104		80 - 120		07/29/13 16:01	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.83		0.20	0.040	ug/L		07/26/13 11:16	07/30/13 22:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	91		70 - 130	07/26/13 11:16	07/30/13 22:09	1

August 7, 2013

Allen and Virginia Corbett
275 Meetinghouse Road
Eastham, MA 02642

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
275 Meetinghouse Road

Dear Mr. and Mrs. Corbett:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/23/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4 24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Allen and Virginia Corbett
2. Street Address: 275 Meetinghouse Road
City/Town: Eastham Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 275 Meetinghouse Road
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.
Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 275 Meetinghouse Road

Lab Sample ID: 480-42551-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.5	J*	2.5	0.54	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.26	J	0.50	0.12	ug/L	1		524.2	Total/NA

Client Sample ID: 275 Meetinghouse Road

Lab Sample ID: 480-42551-9

Date Collected: 07/23/13 13:20

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 16:51	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 16:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 16:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 16:51	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 16:51	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 16:51	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 16:51	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 16:51	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 16:51	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 16:51	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			07/29/13 16:51	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 16:51	1
1,2-Dibromo-3-Chloropropane	ND	*	0.50	0.21	ug/L			07/29/13 16:51	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 16:51	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 275 Meetinghouse Road

Lab Sample ID: 480-42551-9

Date Collected: 07/23/13 13:20

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 16:51	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 16:51	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 16:51	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 16:51	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 16:51	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 16:51	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 16:51	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 16:51	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 16:51	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 16:51	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 16:51	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 16:51	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 16:51	1
Acetone	1.5	J *	2.5	0.54	ug/L			07/29/13 16:51	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 16:51	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 16:51	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 16:51	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 16:51	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 16:51	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 16:51	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 16:51	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 16:51	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 16:51	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 16:51	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 16:51	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 16:51	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 16:51	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 16:51	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 16:51	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 16:51	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 16:51	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 16:51	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 16:51	1
Methyl tert-butyl ether	0.26	J	0.50	0.12	ug/L			07/29/13 16:51	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 16:51	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 16:51	1
Naphthalene	ND	*	0.50	0.060	ug/L			07/29/13 16:51	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 16:51	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 16:51	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 16:51	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 16:51	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 16:51	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 16:51	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 16:51	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 16:51	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 16:51	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 16:51	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 16:51	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 16:51	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 275 Meetinghouse Road

Lab Sample ID: 480-42551-9

Date Collected: 07/23/13 13:20

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 16:51	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 16:51	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 16:51	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		07/29/13 16:51	1
4-Bromofluorobenzene (Surr)	93		80 - 120		07/29/13 16:51	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/26/13 11:16	07/30/13 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	81		70 - 130				07/26/13 11:16	07/30/13 22:33	1

August 7, 2013

David and Margaret Rost
166 Main Street
Concord, MA 01742

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
130 Glacier Hills Road

Dear Mr. and Mrs. Rost:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/23/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: David and Margaret Rost
2. Street Address: 166 Main Street
City/Town: Concord Zip Code: 01742

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 130 Glacier Hills Road
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.
Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



Client Sample ID: 130 Glacier Hills Road

Lab Sample ID: 480-42551-11

☐ No Detections.

Client Sample ID: 130 Glacier Hills Road

Lab Sample ID: 480-42551-11

Date Collected: 07/23/13 14:15

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 17:41	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 17:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 17:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 17:41	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 17:41	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 17:41	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 17:41	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 17:41	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 17:41	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 17:41	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			07/29/13 17:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 17:41	1
1,2-Dibromo-3-Chloropropane	ND	*	0.50	0.21	ug/L			07/29/13 17:41	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 17:41	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 17:41	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 17:41	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 17:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 17:41	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 17:41	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 17:41	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 17:41	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 17:41	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 17:41	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 17:41	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 17:41	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 17:41	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 17:41	1
Acetone	ND	*	2.5	0.54	ug/L			07/29/13 17:41	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 130 Glacier Hills Road

Lab Sample ID: 480-42551-11

Date Collected: 07/23/13 14:15

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/29/13 17:41	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 17:41	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 17:41	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 17:41	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 17:41	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 17:41	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 17:41	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 17:41	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 17:41	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 17:41	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 17:41	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 17:41	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 17:41	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 17:41	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 17:41	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 17:41	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 17:41	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 17:41	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 17:41	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 17:41	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 17:41	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 17:41	1
Naphthalene	ND *		0.50	0.060	ug/L			07/29/13 17:41	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 17:41	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 17:41	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 17:41	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 17:41	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 17:41	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 17:41	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 17:41	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 17:41	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 17:41	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 17:41	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 17:41	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 17:41	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 17:41	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 17:41	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 17:41	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		07/29/13 17:41	1
4-Bromofluorobenzene (Surr)	94		80 - 120		07/29/13 17:41	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/26/13 11:16	07/31/13 10:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	72		70 - 130	07/26/13 11:16	07/31/13 10:07	1

TestAmerica Buffalo

August 7, 2013

Jacqueline and Devon O'Rourke
P.O. Box 863
North Eastham, MA 02651

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
65 Knowles Street

Dear Mr. and Mrs. O'Rourke:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/23/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.11J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Jacqueline and Devon O'Rourke
2. Street Address: P.O. Box 863
City/Town: North Eastham Zip Code: 02651

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 65 Knowles Street
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 65 Knowles Street

Lab Sample ID: 480-42551-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	2.2	J *	2.5	0.54	ug/L	1			524.2	Total/NA
1,4-Dioxane	0.11	J	0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 65 Knowles Street

Lab Sample ID: 480-42551-13

Date Collected: 07/23/13 15:10

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 18:30	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 18:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 18:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 18:30	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 18:30	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 18:30	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 18:30	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 18:30	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 18:30	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 18:30	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			07/29/13 18:30	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 18:30	1
1,2-Dibromo-3-Chloropropane	ND	*	0.50	0.21	ug/L			07/29/13 18:30	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 18:30	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 18:30	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 18:30	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 18:30	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 18:30	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 18:30	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 18:30	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 18:30	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 18:30	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 18:30	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 18:30	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 18:30	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 18:30	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 18:30	1
Acetone	2.2	J *	2.5	0.54	ug/L			07/29/13 18:30	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 18:30	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 18:30	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 18:30	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 18:30	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 18:30	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 18:30	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 18:30	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 18:30	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 18:30	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 18:30	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 18:30	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 18:30	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 18:30	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 18:30	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 18:30	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 18:30	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 18:30	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 18:30	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 18:30	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 18:30	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 18:30	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: 65 Knowles Street

Lab Sample ID: 480-42551-13

Date Collected: 07/23/13 15:10

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 18:30	1
Naphthalene	ND	*	0.50	0.060	ug/L			07/29/13 18:30	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 18:30	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 18:30	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 18:30	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 18:30	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 18:30	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 18:30	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 18:30	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 18:30	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 18:30	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 18:30	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 18:30	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 18:30	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 18:30	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 18:30	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 18:30	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		07/29/13 18:30	1
4-Bromofluorobenzene (Surr)	91		80 - 120		07/29/13 18:30	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.11	J	0.20	0.040	ug/L		07/26/13 11:16	07/30/13 23:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	80		70 - 130	07/26/13 11:16	07/30/13 23:19	1

August 7, 2013

Richard and Claudia Setter
35 Grant Avenue
Wrentham, MA 02093

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
4 Whidah Lane

Dear Mr. and Mrs. Setter:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/24/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

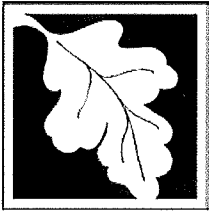
Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Richard and Claudia Setter
2. Street Address: 35 Grant Avenue
City/Town: Wrentham Zip Code: 02093

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 4 Whidah Lane
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 4 Whidah Way

Lab Sample ID: 480-42639-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.89	J	2.5	0.54	ug/L	1			524.2	Total/NA
Methyl tert-butyl ether	0.23	J	0.50	0.12	ug/L	1			524.2	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 4 Whidah Way

Lab Sample ID: 480-42639-7

Date Collected: 07/24/13 12:40

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 17:35	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 17:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 17:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 17:35	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 17:35	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 17:35	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 17:35	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 17:35	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 17:35	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 17:35	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 17:35	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 17:35	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 17:35	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 17:35	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 17:35	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 17:35	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 17:35	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 17:35	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 17:35	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 17:35	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 17:35	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 17:35	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 17:35	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 17:35	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 17:35	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 17:35	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 17:35	1
Acetone	0.89	J	2.5	0.54	ug/L			07/29/13 17:35	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 17:35	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 17:35	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 17:35	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 17:35	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 17:35	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 17:35	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 17:35	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 17:35	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 17:35	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 17:35	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 17:35	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 17:35	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 17:35	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 17:35	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 17:35	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 17:35	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 17:35	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 17:35	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 17:35	1
Methyl tert-butyl ether	0.23	J	0.50	0.12	ug/L			07/29/13 17:35	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 17:35	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 4 Whidah Way

Lab Sample ID: 480-42639-7

Date Collected: 07/24/13 12:40

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 17:35	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 17:35	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 17:35	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 17:35	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 17:35	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 17:35	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 17:35	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 17:35	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 17:35	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 17:35	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 17:35	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 17:35	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 17:35	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 17:35	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 17:35	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 17:35	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 17:35	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	106		80 - 120		07/29/13 17:35	1
4-Bromofluorobenzene (Surr)	100		80 - 120		07/29/13 17:35	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/29/13 19:47	07/31/13 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	82		70 - 130	07/29/13 19:47	07/31/13 02:22	1

August 7, 2013

John and Eileen Ahle
13 Eldia Way
Eastham, MA 02642

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
13 Eldia Way

Dear Mr. and Mrs. Ahle:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/24/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1,4-dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.33. The reported concentration is greater than the most restrictive 0.3 ug/L drinking water guideline but less than the 1.5 ug/L Bottled Water Action Level. This Action Level of 1.5 ug/L is based on Site-specific conditions evaluated by a qualified risk assessor who has determined that no significant risk exists below this concentration. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
Well Testing Analytical Data
Sample Results Key
Fact Sheet on 1,4-Dioxane
Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road

City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: John and Eileen Ahle

2. Street Address: 13 Eldia Way

City/Town: Eastham Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 13 Eldia Way

City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____

(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 13 Eldia Way

Lab Sample ID: 480-42639-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.8		2.5	0.54	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	0.14	J	0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.15	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.33		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 13 Eldia Way

Lab Sample ID: 480-42639-1

Date Collected: 07/24/13 09:50

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 15:01	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 15:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 15:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 15:01	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 15:01	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 15:01	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 15:01	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 15:01	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 15:01	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 15:01	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 15:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 15:01	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 15:01	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 15:01	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 15:01	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 15:01	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 15:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 15:01	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 15:01	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 15:01	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 15:01	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 15:01	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 15:01	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 15:01	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 15:01	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 15:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 15:01	1
Acetone	2.8		2.5	0.54	ug/L			07/29/13 15:01	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 15:01	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 15:01	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 15:01	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 15:01	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 15:01	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 15:01	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 15:01	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 15:01	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 15:01	1
Chloroform	ND		0.50	0.14	ug/L			07/29/13 15:01	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 15:01	1
cis-1,2-Dichloroethene	0.14	J	0.50	0.12	ug/L			07/29/13 15:01	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 15:01	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 15:01	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 15:01	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 15:01	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 15:01	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 15:01	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 15:01	1
Methyl tert-butyl ether	0.15	J	0.50	0.12	ug/L			07/29/13 15:01	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 15:01	1

6

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 13 Eldia Way

Lab Sample ID: 480-42639-1

Date Collected: 07/24/13 09:50

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 15:01	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 15:01	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 15:01	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 15:01	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 15:01	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 15:01	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 15:01	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 15:01	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 15:01	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 15:01	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 15:01	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 15:01	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 15:01	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 15:01	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 15:01	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 15:01	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 15:01	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		07/29/13 15:01	1
4-Bromofluorobenzene (Surr)	98		80 - 120		07/29/13 15:01	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.33		0.20	0.040	ug/L		07/29/13 19:47	07/31/13 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	72		70 - 130	07/29/13 19:47	07/31/13 01:14	1

August 7, 2013

Doris Kozlowski
385 Meetinghouse Road
Eastham, MA 02642

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
385 Meetinghouse Road

Dear Ms. Kozlowski:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/24/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.040J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Doris Kozlowski, Trustee
2. Street Address: 385 Meetinghouse Road
City/Town: Eastham Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 385 Meetinghouse Road
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 385 Meetinghouse Road

Lab Sample ID: 480-42639-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.94	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.79		0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.040	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 385 Meetinghouse Road

Lab Sample ID: 480-42639-3

Date Collected: 07/24/13 10:50

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 15:53	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 15:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 15:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 15:53	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 15:53	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 15:53	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 15:53	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 15:53	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 15:53	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 15:53	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 15:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 15:53	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 15:53	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 15:53	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 385 Meetinghouse Road

Lab Sample ID: 480-42639-3

Date Collected: 07/24/13 10:50

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 15:53	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 15:53	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 15:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 15:53	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 15:53	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 15:53	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 15:53	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 15:53	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 15:53	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 15:53	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 15:53	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 15:53	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 15:53	1
Acetone	0.94	J	2.5	0.54	ug/L			07/29/13 15:53	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 15:53	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 15:53	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 15:53	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 15:53	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 15:53	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 15:53	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 15:53	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 15:53	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 15:53	1
Chloroform	0.79		0.50	0.14	ug/L			07/29/13 15:53	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 15:53	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 15:53	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 15:53	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 15:53	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 15:53	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 15:53	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 15:53	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 15:53	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 15:53	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 15:53	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 15:53	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 15:53	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 15:53	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 15:53	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 15:53	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 15:53	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 15:53	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 15:53	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 15:53	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 15:53	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 15:53	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 15:53	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 15:53	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 15:53	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 15:53	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 385 Meetinghouse Road

Lab Sample ID: 480-42639-3

Date Collected: 07/24/13 10:50

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 15:53	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 15:53	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 15:53	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		07/29/13 15:53	1
4-Bromofluorobenzene (Surr)	97		80 - 120		07/29/13 15:53	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.040	J	0.20	0.040	ug/L		07/29/13 19:47	07/31/13 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	71		70 - 130	07/29/13 19:47	07/31/13 01:36	1

August 7, 2013

Patricia and Brent Warren
40 Deepwood Drive
Eastham, MA 02642

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
40 Deepwood Drive

Dear Mr. and Mrs. Warren:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/24/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
Well Testing Analytical Data
Sample Results Key
Fact Sheet on 1,4-dioxane
Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road

City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Patricia and Brent Warren

2. Street Address: 40 Deepwood Drive

City/Town: Eastham Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 40 Deepwood Drive

City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____

(specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 40 Deepwood Drive

Lab Sample ID: 480-42639-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.6	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	3.9		0.50	0.14	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.16	J	0.50	0.12	ug/L	1		524.2	Total/NA
Trihalomethanes, Total	3.9		2.0	1.0	ug/L	1		524.2	Total/NA

Client Sample ID: 40 Deepwood Drive

Lab Sample ID: 480-42639-5

Date Collected: 07/24/13 11:45

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 16:44	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 16:44	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 16:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 16:44	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 16:44	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 16:44	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 16:44	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 16:44	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 16:44	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 16:44	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 16:44	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 16:44	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 16:44	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 16:44	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 16:44	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 16:44	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 16:44	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 16:44	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 16:44	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 16:44	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 16:44	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 16:44	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 16:44	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 16:44	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 16:44	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 16:44	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 16:44	1
Acetone	1.6	J	2.5	0.54	ug/L			07/29/13 16:44	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 40 Deepwood Drive

Lab Sample ID: 480-42639-5

Date Collected: 07/24/13 11:45

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/29/13 16:44	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 16:44	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 16:44	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 16:44	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 16:44	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 16:44	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 16:44	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 16:44	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 16:44	1
Chloroform	3.9		0.50	0.14	ug/L			07/29/13 16:44	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 16:44	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 16:44	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 16:44	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 16:44	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 16:44	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 16:44	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 16:44	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 16:44	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 16:44	1
Methyl tert-butyl ether	0.16	J	0.50	0.12	ug/L			07/29/13 16:44	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 16:44	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 16:44	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 16:44	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 16:44	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 16:44	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 16:44	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 16:44	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 16:44	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 16:44	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 16:44	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 16:44	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 16:44	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 16:44	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 16:44	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 16:44	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 16:44	1
Trihalomethanes, Total	3.9		2.0	1.0	ug/L			07/29/13 16:44	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 16:44	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	106		80 - 120		07/29/13 16:44	1
4-Bromofluorobenzene (Surr)	97		80 - 120		07/29/13 16:44	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/29/13 19:47	07/31/13 01:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	75		70 - 130	07/29/13 19:47	07/31/13 01:59	1

TestAmerica Buffalo

August 7, 2013

Rolland and Constance Lavallee
7 Westerly Way
Severna Park, MD 21146

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
45 Deepwood Drive

Dear Mr. and Mrs. Lavallee:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/24/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Rolland Lavallee
2. Street Address: 7 Westerly Way
City/Town: Severna Park, MD Zip Code: 21146

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 45 Deepwood Drive
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 45 Deepwood Drive

Lab Sample ID: 480-42639-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.2	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.67		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 45 Deepwood Drive

Lab Sample ID: 480-42639-9

Date Collected: 07/24/13 13:25

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 18:27	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 18:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 18:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 18:27	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 18:27	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 18:27	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 18:27	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 18:27	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 18:27	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 18:27	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 18:27	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 18:27	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 18:27	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 18:27	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 45 Deepwood Drive

Lab Sample ID: 480-42639-9

Date Collected: 07/24/13 13:25

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 18:27	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 18:27	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 18:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 18:27	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 18:27	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 18:27	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 18:27	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 18:27	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 18:27	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 18:27	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 18:27	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 18:27	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 18:27	1
Acetone	2.2	J	2.5	0.54	ug/L			07/29/13 18:27	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 18:27	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 18:27	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 18:27	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 18:27	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 18:27	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 18:27	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 18:27	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 18:27	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 18:27	1
Chloroform	0.67		0.50	0.14	ug/L			07/29/13 18:27	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 18:27	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 18:27	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 18:27	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 18:27	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 18:27	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 18:27	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 18:27	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 18:27	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 18:27	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 18:27	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 18:27	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 18:27	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 18:27	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 18:27	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 18:27	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 18:27	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 18:27	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 18:27	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 18:27	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 18:27	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 18:27	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 18:27	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 18:27	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 18:27	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 18:27	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 45 Deepwood Drive

Lab Sample ID: 480-42639-9

Date Collected: 07/24/13 13:25

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 18:27	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 18:27	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 18:27	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	106		80 - 120		07/29/13 18:27	1
4-Bromofluorobenzene (Surr)	98		80 - 120		07/29/13 18:27	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/29/13 19:47	07/31/13 02:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	73		70 - 130	07/29/13 19:47	07/31/13 02:46	1

August 7, 2013

Margaret Phillips and Jill Stewart
150 Glacier Hills Road
Eastham, MA 02642

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
150 Glacier Hills Road

Dear Ms. Phillips and Ms. Stewart:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/24/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
Well Testing Analytical Data
Sample Results Key
Fact Sheet on 1,4-dioxane
Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road

City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Margaret Phillips and Jill Stewart

2. Street Address: 150 Glacier Hills Road

City/Town: Eastham Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 150 Glacier Hills Road

City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____

(specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 150 Glacier Hills Road

Lab Sample ID: 480-42639-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.7		2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.87		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 150 Glacier Hills Road

Lab Sample ID: 480-42639-11

Date Collected: 07/24/13 14:30

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 19:18	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 19:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 19:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 19:18	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 19:18	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 19:18	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 19:18	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 19:18	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 19:18	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 19:18	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 19:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 19:18	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 19:18	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 19:18	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 19:18	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 19:18	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 19:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 19:18	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 19:18	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 19:18	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 19:18	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 19:18	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 19:18	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 19:18	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 19:18	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 19:18	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 19:18	1
Acetone	3.7		2.5	0.54	ug/L			07/29/13 19:18	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 150 Glacier Hills Road

Lab Sample ID: 480-42639-11

Date Collected: 07/24/13 14:30

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/29/13 19:18	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 19:18	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 19:18	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 19:18	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 19:18	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 19:18	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 19:18	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 19:18	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 19:18	1
Chloroform	0.87		0.50	0.14	ug/L			07/29/13 19:18	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 19:18	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 19:18	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 19:18	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 19:18	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 19:18	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 19:18	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 19:18	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 19:18	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 19:18	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/29/13 19:18	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 19:18	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 19:18	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 19:18	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 19:18	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 19:18	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 19:18	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 19:18	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 19:18	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 19:18	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 19:18	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 19:18	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 19:18	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 19:18	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 19:18	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 19:18	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 19:18	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/29/13 19:18	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 19:18	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	108		80 - 120		07/29/13 19:18	1
4-Bromofluorobenzene (Surr)	99		80 - 120		07/29/13 19:18	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/29/13 19:47	07/31/13 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	78		70 - 130	07/29/13 19:47	07/31/13 03:09	1

TestAmerica Buffalo

August 7, 2013

Helen Lubben
39 North Baynard Lane
Mahwah, NJ 07430

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
400 Meetinghouse Road

Dear Ms. Lubben:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/24/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.12J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Helen Lubben
2. Street Address: 39 North Baynard Lane
City/Town: Mahwah, NJ Zip Code: 07430

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 400 Meetinghouse Road
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.
Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 400 Meetinghouse Road

Lab Sample ID: 480-42639-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.85	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	1.0		0.50	0.14	ug/L	1			524.2	Total/NA
Methyl tert-butyl ether	0.14	J	0.50	0.12	ug/L	1			524.2	Total/NA
Trihalomethanes, Total	1.0	J	2.0	1.0	ug/L	1			524.2	Total/NA
1,4-Dioxane	0.12	J	0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 400 Meetinghouse Road

Lab Sample ID: 480-42639-13

Date Collected: 07/24/13 15:25

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/29/13 20:09	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/29/13 20:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/29/13 20:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/29/13 20:09	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/29/13 20:09	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/29/13 20:09	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/29/13 20:09	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/29/13 20:09	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/29/13 20:09	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/29/13 20:09	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 20:09	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/29/13 20:09	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/29/13 20:09	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/29/13 20:09	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/29/13 20:09	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/29/13 20:09	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/29/13 20:09	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/29/13 20:09	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 20:09	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/29/13 20:09	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/29/13 20:09	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/29/13 20:09	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/29/13 20:09	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 20:09	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/29/13 20:09	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/29/13 20:09	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/29/13 20:09	1
Acetone	0.85	J	2.5	0.54	ug/L			07/29/13 20:09	1
Benzene	ND		0.50	0.13	ug/L			07/29/13 20:09	1
Bromobenzene	ND		0.50	0.13	ug/L			07/29/13 20:09	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/29/13 20:09	1
Bromoform	ND		0.50	0.13	ug/L			07/29/13 20:09	1
Bromomethane	ND		0.50	0.051	ug/L			07/29/13 20:09	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/29/13 20:09	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/29/13 20:09	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/29/13 20:09	1
Chloroethane	ND		0.50	0.070	ug/L			07/29/13 20:09	1
Chloroform	1.0		0.50	0.14	ug/L			07/29/13 20:09	1
Chloromethane	ND		0.50	0.063	ug/L			07/29/13 20:09	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/29/13 20:09	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/29/13 20:09	1
Dibromomethane	ND		0.50	0.17	ug/L			07/29/13 20:09	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/29/13 20:09	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			07/29/13 20:09	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/29/13 20:09	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/29/13 20:09	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/29/13 20:09	1
Methyl tert-butyl ether	0.14	J	0.50	0.12	ug/L			07/29/13 20:09	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/29/13 20:09	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42639-1

Client Sample ID: 400 Meetinghouse Road

Lab Sample ID: 480-42639-13

Date Collected: 07/24/13 15:25

Matrix: Water

Date Received: 07/26/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/29/13 20:09	1
Naphthalene	ND		0.50	0.060	ug/L			07/29/13 20:09	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/29/13 20:09	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/29/13 20:09	1
o-Xylene	ND		0.50	0.044	ug/L			07/29/13 20:09	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/29/13 20:09	1
Styrene	ND		0.50	0.044	ug/L			07/29/13 20:09	1
t-Butanol	ND		10	2.5	ug/L			07/29/13 20:09	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/29/13 20:09	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/29/13 20:09	1
Toluene	ND		0.50	0.10	ug/L			07/29/13 20:09	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/29/13 20:09	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/29/13 20:09	1
Trichloroethene	ND		0.50	0.060	ug/L			07/29/13 20:09	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			07/29/13 20:09	1
Trihalomethanes, Total	1.0	J	2.0	1.0	ug/L			07/29/13 20:09	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/29/13 20:09	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/29/13 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	108		80 - 120		07/29/13 20:09	1
4-Bromofluorobenzene (Surr)	98		80 - 120		07/29/13 20:09	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.12	J	0.20	0.040	ug/L		07/29/13 19:47	07/31/13 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	75		70 - 130	07/29/13 19:47	07/31/13 03:32	1

August 14, 2013

Jared and Nancy Lamb
194 Summer Avenue
Reading, MA 01867

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
170 Candlewood Drive

Dear Mr. and Mrs. Lamb:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/25/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

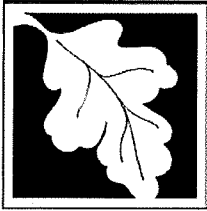
Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road

City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Jared and Nancy Lamb

2. Street Address: 194 Summer Avenue

City/Town: Reading Zip Code: 01867

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 170 Candlewood Drive

City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____

(specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Detection Summary

Client: Bennett Environmental Associates, Inc.

TestAmerica Job ID: 480-42740-1

Project/Site: Eastham Landfill IRA

Client Sample ID: 170 Candlewood Drive

Lab Sample ID: 480-42740-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.55	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.51		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 170 Candlewood Drive

Lab Sample ID: 480-42740-1

Date Collected: 07/25/13 09:25

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 02:40	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 02:40	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 02:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 02:40	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 02:40	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 02:40	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 02:40	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 02:40	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 02:40	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 02:40	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 02:40	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 02:40	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 02:40	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 02:40	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 02:40	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 02:40	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 02:40	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 02:40	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 02:40	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 02:40	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 02:40	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 02:40	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 02:40	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 02:40	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 02:40	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 02:40	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 02:40	1
Acetone	0.55	J	2.5	0.54	ug/L			07/30/13 02:40	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 02:40	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 02:40	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 02:40	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 02:40	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 02:40	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 02:40	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 02:40	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 02:40	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 02:40	1
Chloroform	0.51		0.50	0.14	ug/L			07/30/13 02:40	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 02:40	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 02:40	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 02:40	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 02:40	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 02:40	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			07/30/13 02:40	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 02:40	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 02:40	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 02:40	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 02:40	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 02:40	1

6

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 170 Candlewood Drive

Lab Sample ID: 480-42740-1

Date Collected: 07/25/13 09:25

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 02:40	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 02:40	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 02:40	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 02:40	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 02:40	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 02:40	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 02:40	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 02:40	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 02:40	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 02:40	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 02:40	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 02:40	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 02:40	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 02:40	1
Trichlorofluoromethane	ND *		0.50	0.044	ug/L			07/30/13 02:40	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 02:40	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 02:40	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	108		80 - 120		07/30/13 02:40	1
4-Bromofluorobenzene (Surr)	99		80 - 120		07/30/13 02:40	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	72		70 - 130	07/31/13 17:41	08/01/13 13:50	1

August 14, 2013

William and Judith Doane
60 Maolis Avenue
West Bridgewater, MA 02379

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
20 Chipman Street

Dear Mr. and Mrs. Doane:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/25/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.041J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
Well Testing Analytical Data
Sample Results Key
Fact Sheet on 1,4-dioxane
Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4 24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: William and Judith Doane
2. Street Address: 60 Maolis Avenue
City/Town: West Bridgewater Zip Code: 02379

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 20 Chipman Street
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.
Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 20 Chipman Street

Lab Sample ID: 480-42740-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.74	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	0.22	J	0.50	0.14	ug/L	1			524.2	Total/NA
1,4-Dioxane	0.041	J	0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample ID: 20 Chipman Street

Lab Sample ID: 480-42740-3

Date Collected: 07/25/13 10:20

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 03:31	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 03:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 03:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 03:31	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 03:31	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 03:31	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 03:31	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 03:31	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 03:31	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 03:31	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 03:31	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 03:31	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 03:31	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 03:31	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 20 Chipman Street

Lab Sample ID: 480-42740-3

Date Collected: 07/25/13 10:20

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 03:31	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 03:31	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 03:31	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 03:31	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 03:31	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 03:31	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 03:31	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 03:31	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 03:31	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 03:31	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 03:31	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 03:31	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 03:31	1
Acetone	0.74	J	2.5	0.54	ug/L			07/30/13 03:31	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 03:31	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 03:31	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 03:31	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 03:31	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 03:31	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 03:31	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 03:31	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 03:31	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 03:31	1
Chloroform	0.22	J	0.50	0.14	ug/L			07/30/13 03:31	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 03:31	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 03:31	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 03:31	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 03:31	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 03:31	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			07/30/13 03:31	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 03:31	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 03:31	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 03:31	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 03:31	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 03:31	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 03:31	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 03:31	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 03:31	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 03:31	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 03:31	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 03:31	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 03:31	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 03:31	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 03:31	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 03:31	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 03:31	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 03:31	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 03:31	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 03:31	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 20 Chipman Street

Lab Sample ID: 480-42740-3

Date Collected: 07/25/13 10:20

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 03:31	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 03:31	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 03:31	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 03:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		07/30/13 03:31	1
4-Bromofluorobenzene (Surr)	100		80 - 120		07/30/13 03:31	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.041	J	0.20	0.040	ug/L		07/31/13 17:41	08/01/13 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	81		70 - 130	07/31/13 17:41	08/01/13 15:10	1

August 14, 2013

Donald and Ann Rey
121 Bunker Hill Road
Andover, CT 06232

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
230 Glacier Hills Road

Dear Mr. and Mrs. Rey:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/25/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road

City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Donald and Ann Rey

2. Street Address: 121 Bunker Hill Road

City/Town: Andover, CT Zip Code: 06232

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 230 Glacier Hills Road

City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____

(specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 230 Glacier Hills Road

Lab Sample ID: 480-42740-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.68	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.74		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 230 Glacier Hills Road

Date Collected: 07/25/13 11:00

Date Received: 07/27/13 02:30

Lab Sample ID: 480-42740-5

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 04:22	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 04:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 04:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 04:22	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 04:22	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 04:22	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 04:22	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 04:22	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 04:22	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 04:22	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 04:22	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 04:22	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 04:22	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 04:22	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 04:22	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 04:22	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 04:22	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 04:22	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 04:22	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 04:22	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 04:22	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 04:22	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 04:22	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 04:22	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 04:22	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 04:22	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 04:22	1
Acetone	0.68	J	2.5	0.54	ug/L			07/30/13 04:22	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 230 Glacier Hills Road

Lab Sample ID: 480-42740-5

Date Collected: 07/25/13 11:00

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/30/13 04:22	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 04:22	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 04:22	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 04:22	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 04:22	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 04:22	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 04:22	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 04:22	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 04:22	1
Chloroform	0.74		0.50	0.14	ug/L			07/30/13 04:22	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 04:22	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 04:22	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 04:22	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 04:22	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 04:22	1
Dichlorodifluoromethane	ND *		0.50	0.070	ug/L			07/30/13 04:22	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 04:22	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 04:22	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 04:22	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 04:22	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 04:22	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 04:22	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 04:22	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 04:22	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 04:22	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 04:22	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 04:22	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 04:22	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 04:22	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 04:22	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 04:22	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 04:22	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 04:22	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 04:22	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 04:22	1
Trichlorofluoromethane	ND *		0.50	0.044	ug/L			07/30/13 04:22	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 04:22	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 04:22	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 04:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		07/30/13 04:22	1
4-Bromofluorobenzene (Surr)	101		80 - 120		07/30/13 04:22	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	81		70 - 130	07/31/13 17:41	08/01/13 15:32	1

TestAmerica Buffalo

August 14, 2013

Thomas and Diane Hilferty
310 Glacier Hills Road
Eastham, MA 02642

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
310 Glacier Hills Road

Dear Mr. and Mrs. Hilferty:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/25/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road

City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Thomas and Diane Hilferty

2. Street Address: 310 Glacier Hills Road

City/Town: Eastham Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 310 Glacier Hills Road

City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

- ☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 310 Glacier Hills Road

Lab Sample ID: 480-42740-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.60	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	1.1		0.50	0.14	ug/L	1		524.2	Total/NA
Trihalomethanes, Total	1.1	J	2.0	1.0	ug/L	1		524.2	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 310 Glacier Hills Road

Lab Sample ID: 480-42740-7

Date Collected: 07/25/13 11:45

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 05:14	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 05:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 05:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 05:14	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 05:14	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 05:14	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 05:14	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 05:14	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 05:14	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 05:14	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 05:14	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 05:14	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 05:14	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 05:14	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 05:14	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 05:14	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 05:14	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 05:14	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 05:14	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 05:14	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 05:14	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 05:14	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 05:14	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 05:14	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 05:14	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 05:14	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 05:14	1
Acetone	0.60	J	2.5	0.54	ug/L			07/30/13 05:14	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 05:14	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 05:14	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 05:14	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 05:14	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 05:14	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 05:14	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 05:14	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 05:14	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 05:14	1
Chloroform	1.1		0.50	0.14	ug/L			07/30/13 05:14	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 05:14	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 05:14	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 05:14	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 05:14	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 05:14	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			07/30/13 05:14	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 05:14	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 05:14	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 05:14	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 05:14	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 05:14	1

6

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 310 Glacier Hills Road

Lab Sample ID: 480-42740-7

Date Collected: 07/25/13 11:45

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 05:14	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 05:14	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 05:14	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 05:14	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 05:14	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 05:14	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 05:14	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 05:14	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 05:14	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 05:14	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 05:14	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 05:14	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 05:14	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 05:14	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 05:14	1
Trihalomethanes, Total	1.1	J	2.0	1.0	ug/L			07/30/13 05:14	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 05:14	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 05:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120					07/30/13 05:14	1
4-Bromofluorobenzene (Surr)	99		80 - 120					07/30/13 05:14	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	74		70 - 130				07/31/13 17:41	08/01/13 15:56	1

August 14, 2013

Peter and Mary Martinelli
18 Park Circle Drive
Dalton, MA 01226

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
25 Knowles Street

Dear Mr. and Mrs. Martinelli:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/25/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1,4-dioxane was detected in the drinking water sample obtained from your well at a concentration of 2.8. The reported concentration is greater than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. This Action Level of 1.5 ug/L is based on Site-specific conditions evaluated by a qualified risk assessor who has determined that a potential significant risk associated with ingestion may exist at this concentration. The use of bottled water, however, will eliminate this exposure pathway. Given this information, and as a precautionary measure, the Town has already begun providing you with bottled water at the Town's expense. Because 1,4-dioxane does not evaporate easily or absorb through the skin readily, you may continue to use the water for other household activities, including bathing, showering, and washing dishes. A fact sheet with more information about 1,4-dioxane is attached. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data.

Potential Additional Sampling

Due to the presence of 1,4-dioxane in your private drinking water well, the Town would like to re-sample your private well on a monthly basis to evaluate the concentrations of 1,4-dioxane. The Town will contact you to determine a mutually agreeable schedule to continue monitoring your private well. In the meantime, please continue to use bottled water for drinking and cooking.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4 24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Peter and Mary Martinelli
2. Street Address: 18 Park Circle Drive
City/Town: Dalton Zip Code: 01226

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 25 Knowles Street
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 25 Knowles Street (RES-36)

Lab Sample ID: 480-42740-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.25	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	0.76	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.43	J	0.50	0.14	ug/L	1		524.2	Total/NA
Chloromethane	0.078	J	0.50	0.063	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	2.0		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.33	J	0.50	0.12	ug/L	1		524.2	Total/NA
Vinyl chloride	0.083	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	2.8		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 25 Knowles Street (RES-36)

Lab Sample ID: 480-42740-9

Date Collected: 07/25/13 12:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 06:04	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 06:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 06:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 06:04	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 06:04	1
1,1-Dichloroethane	0.25	J	0.50	0.074	ug/L			07/30/13 06:04	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 06:04	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 06:04	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 06:04	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 06:04	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 06:04	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 06:04	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 06:04	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 06:04	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 25 Knowles Street (RES-36)

Lab Sample ID: 480-42740-9

Date Collected: 07/25/13 12:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 06:04	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 06:04	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 06:04	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 06:04	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 06:04	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 06:04	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 06:04	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 06:04	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 06:04	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 06:04	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 06:04	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 06:04	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 06:04	1
Acetone	0.76	J	2.5	0.54	ug/L			07/30/13 06:04	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 06:04	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 06:04	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 06:04	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 06:04	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 06:04	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 06:04	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 06:04	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 06:04	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 06:04	1
Chloroform	0.43	J	0.50	0.14	ug/L			07/30/13 06:04	1
Chloromethane	0.078	J	0.50	0.063	ug/L			07/30/13 06:04	1
cis-1,2-Dichloroethene	2.0		0.50	0.12	ug/L			07/30/13 06:04	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 06:04	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 06:04	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 06:04	1
Dichlorodifluoromethane	ND *		0.50	0.070	ug/L			07/30/13 06:04	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 06:04	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 06:04	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 06:04	1
Methyl tert-butyl ether	0.33	J	0.50	0.12	ug/L			07/30/13 06:04	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 06:04	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 06:04	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 06:04	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 06:04	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 06:04	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 06:04	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 06:04	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 06:04	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 06:04	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 06:04	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 06:04	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 06:04	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 06:04	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 06:04	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 06:04	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 25 Knowles Street (RES-36)

Lab Sample ID: 480-42740-9

Date Collected: 07/25/13 12:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 06:04	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 06:04	1
Vinyl chloride	0.083	J	0.50	0.059	ug/L			07/30/13 06:04	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 06:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	108		80 - 120		07/30/13 06:04	1
4-Bromofluorobenzene (Surr)	100		80 - 120		07/30/13 06:04	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Method: 522 MOD - 1,4 Dioxane (GC/MS SWI)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.8		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	79		70 - 130				07/31/13 17:41	08/01/13 16:18	1

August 14, 2013

Elizabeth Harding
2368 Partmarnoch Lane
Spring Hill, FL 34606

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
55 Candlewood Drive

Dear Ms. Harding:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/25/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Elizabeth Harding
2. Street Address: 2368 Portmarnoch Lane
City/Town: Spring Hill, FL Zip Code: 34606

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 55 Candlewood Drive
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____

(specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.
Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 55 Candlewood Drive

Lab Sample ID: 480-42740-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.29	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 55 Candlewood Drive

Lab Sample ID: 480-42740-12

Date Collected: 07/25/13 09:45

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 07:20	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 07:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 07:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 07:20	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 07:20	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 07:20	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 07:20	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 07:20	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 07:20	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 07:20	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 07:20	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 07:20	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 07:20	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 07:20	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 07:20	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 07:20	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 07:20	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 07:20	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 07:20	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 07:20	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 07:20	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 07:20	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 07:20	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 07:20	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 07:20	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 07:20	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 07:20	1
Acetone	1.1	J	2.5	0.54	ug/L			07/30/13 07:20	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 07:20	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 07:20	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 07:20	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 07:20	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 07:20	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 07:20	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 07:20	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 07:20	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 07:20	1
Chloroform	0.29	J	0.50	0.14	ug/L			07/30/13 07:20	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 07:20	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 07:20	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 07:20	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 07:20	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 07:20	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			07/30/13 07:20	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 07:20	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 07:20	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 07:20	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 07:20	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 07:20	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 55 Candlewood Drive

Lab Sample ID: 480-42740-12

Date Collected: 07/25/13 09:45

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 07:20	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 07:20	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 07:20	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 07:20	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 07:20	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 07:20	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 07:20	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 07:20	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 07:20	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 07:20	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 07:20	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 07:20	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 07:20	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 07:20	1
Trichlorofluoromethane	ND *		0.50	0.044	ug/L			07/30/13 07:20	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 07:20	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 07:20	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 07:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120					07/30/13 07:20	1
4-Bromofluorobenzene (Surr)	100		80 - 120					07/30/13 07:20	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	71		70 - 130				07/31/13 17:41	08/01/13 17:23	1

August 14, 2013

Glen and Denise Johnson
7 Strawberry Hill Road
Southborough, MA 01772

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
75 Deerfield Lane

Dear Mr. and Mrs. Johnson:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/25/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Glen and Denise Johnson
2. Street Address: 7 Strawberry Hill Road
City/Town: Southborough Zip Code: 01772

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 75 Deerfield Lane
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.
Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



Client Sample ID: 75 Deerfiled Lane

Lab Sample ID: 480-42740-14

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Page 5 of 58

8/6/2013

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 75 Deerfiled Lane (Continued)

Lab Sample ID: 480-42740-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	4.2		2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	1.1		0.50	0.14	ug/L	1			524.2	Total/NA
Trihalomethanes, Total	1.1	J	2.0	1.0	ug/L	1			524.2	Total/NA

Client Sample ID: 75 Deerfiled Lane

Lab Sample ID: 480-42740-14

Date Collected: 07/25/13 10:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 08:10	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 08:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 08:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 08:10	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 08:10	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 08:10	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 08:10	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 08:10	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 08:10	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 08:10	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 08:10	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 08:10	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 08:10	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 08:10	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 75 Deerfiled Lane

Lab Sample ID: 480-42740-14

Date Collected: 07/25/13 10:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 08:10	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 08:10	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 08:10	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 08:10	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 08:10	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 08:10	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 08:10	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 08:10	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 08:10	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 08:10	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 08:10	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 08:10	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 08:10	1
Acetone	4.2		2.5	0.54	ug/L			07/30/13 08:10	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 08:10	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 08:10	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 08:10	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 08:10	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 08:10	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 08:10	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 08:10	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 08:10	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 08:10	1
Chloroform	1.1		0.50	0.14	ug/L			07/30/13 08:10	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 08:10	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 08:10	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 08:10	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 08:10	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 08:10	1
Dichlorodifluoromethane	ND *		0.50	0.070	ug/L			07/30/13 08:10	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 08:10	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 08:10	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 08:10	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 08:10	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 08:10	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 08:10	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 08:10	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 08:10	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 08:10	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 08:10	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 08:10	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 08:10	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 08:10	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 08:10	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 08:10	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 08:10	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 08:10	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 08:10	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 08:10	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 75 Deerfiled Lane

Lab Sample ID: 480-42740-14

Date Collected: 07/25/13 10:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 08:10	1
Trihalomethanes, Total	1.1	J	2.0	1.0	ug/L			07/30/13 08:10	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 08:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 08:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	110		80 - 120		07/30/13 08:10	1
4-Bromofluorobenzene (Surr)	99		80 - 120		07/30/13 08:10	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	79		70 - 130	07/31/13 17:41	08/01/13 17:45	1

August 14, 2013

Christopher and Denna Ross
50 Alston Avenue
Eastham, MA 02642

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
50 Alston Avenue

Dear Mr. and Mrs. Ross:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/25/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.18J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data.

Potential Additional Sampling

The Town would like to re-sample your private well on a monthly basis to evaluate the concentrations of 1,4-dioxane. The Town will contact you to determine a mutually agreeable schedule to continue monitoring your private well.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
Well Testing Analytical Data
Sample Results Key
Fact Sheet on 1,4-dioxane
Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road

City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Christopher and Deanna Ross

2. Street Address: 50 Alston Avenue

City/Town: Eastham Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 50 Alston Avenue

City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____

(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 50 Alston Ave (RES-35)

Lab Sample ID: 480-42740-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1-Dichloroethane	0.30	J	0.50	0.074	ug/L	1			524.2	Total/NA
Acetone	2.1	J	2.5	0.54	ug/L	1			524.2	Total/NA
1,4-Dioxane	0.18	J	0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample ID: 50 Alston Ave (RES-35)

Lab Sample ID: 480-42740-16

Date Collected: 07/25/13 11:30

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 11:36	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 11:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 11:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 11:36	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 11:36	1
1,1-Dichloroethane	0.30	J	0.50	0.074	ug/L			07/30/13 11:36	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 11:36	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 11:36	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 11:36	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 11:36	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 11:36	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 11:36	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 11:36	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 11:36	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 11:36	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 11:36	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 11:36	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 11:36	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 11:36	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 11:36	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 11:36	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 11:36	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 11:36	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 11:36	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 11:36	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 11:36	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 11:36	1
Acetone	2.1	J	2.5	0.54	ug/L			07/30/13 11:36	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 50 Alston Ave (RES-35)

Lab Sample ID: 480-42740-16

Date Collected: 07/25/13 11:30

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/30/13 11:36	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 11:36	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 11:36	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 11:36	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 11:36	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 11:36	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 11:36	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 11:36	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 11:36	1
Chloroform	ND		0.50	0.14	ug/L			07/30/13 11:36	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 11:36	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 11:36	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 11:36	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 11:36	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 11:36	1
Dichlorodifluoromethane	ND *		0.50	0.070	ug/L			07/30/13 11:36	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 11:36	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 11:36	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 11:36	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 11:36	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 11:36	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 11:36	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 11:36	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 11:36	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 11:36	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 11:36	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 11:36	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 11:36	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 11:36	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 11:36	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 11:36	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 11:36	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 11:36	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 11:36	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 11:36	1
Trichlorofluoromethane	ND *		0.50	0.044	ug/L			07/30/13 11:36	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 11:36	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 11:36	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 11:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		07/30/13 11:36	1
4-Bromofluorobenzene (Surr)	98		80 - 120		07/30/13 11:36	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.18	J	0.20	0.040	ug/L		07/31/13 17:41	08/01/13 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	83		70 - 130	07/31/13 17:41	08/01/13 18:07	1

TestAmerica Buffalo

August 14, 2013

Philip Bauer
214 Slice Drive
Stamford, CT 06907

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
55 Deepwood Drive

Dear Mr. Bauer:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/25/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Philip Bauer
2. Street Address: 214 Slice Drive
City/Town: Stamford, CT Zip Code: 06907

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 55 Deepwood Drive
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.
Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 55 Deepwood Drive

Lab Sample ID: 480-42740-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.9		2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.19	J	0.50	0.14	ug/L	1		524.2	Total/NA
Chloromethane	0.11	J	0.50	0.063	ug/L	1		524.2	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 55 Deepwood Drive

Lab Sample ID: 480-42740-18

Date Collected: 07/25/13 12:10

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 12:27	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 12:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 12:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 12:27	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 12:27	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 12:27	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 12:27	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 12:27	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 12:27	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 12:27	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 12:27	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 12:27	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 12:27	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 12:27	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 12:27	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 12:27	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 12:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 12:27	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 12:27	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 12:27	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 12:27	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 12:27	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 12:27	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 12:27	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 12:27	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 12:27	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 12:27	1
Acetone	2.9		2.5	0.54	ug/L			07/30/13 12:27	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 12:27	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 12:27	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 12:27	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 12:27	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 12:27	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 12:27	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 12:27	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 12:27	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 12:27	1
Chloroform	0.19	J	0.50	0.14	ug/L			07/30/13 12:27	1
Chloromethane	0.11	J	0.50	0.063	ug/L			07/30/13 12:27	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 12:27	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 12:27	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 12:27	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 12:27	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			07/30/13 12:27	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 12:27	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 12:27	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 12:27	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 12:27	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 12:27	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 55 Deepwood Drive

Lab Sample ID: 480-42740-18

Date Collected: 07/25/13 12:10

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 12:27	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 12:27	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 12:27	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 12:27	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 12:27	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 12:27	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 12:27	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 12:27	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 12:27	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 12:27	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 12:27	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 12:27	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 12:27	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 12:27	1
Trichlorofluoromethane	ND *		0.50	0.044	ug/L			07/30/13 12:27	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 12:27	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 12:27	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 12:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120					07/30/13 12:27	1
4-Bromofluorobenzene (Surr)	99		80 - 120					07/30/13 12:27	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	81		70 - 130				07/31/13 17:41	08/01/13 18:30	1

August 14, 2013

Donna Holway
11 Eldia Way
Eastham, MA 02642

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
11 Eldia Way

Dear Ms. Holway:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/25/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1,4-dioxane was detected in the drinking water sample obtained from your well at a concentration of 3.0. The reported concentration is greater than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. This Action Level of 1.5 ug/L is based on Site-specific conditions evaluated by a qualified risk assessor who has determined that a potential significant risk associated with ingestion may exist at this concentration. The use of bottled water, however, will eliminate this exposure pathway. Given this information, and as a precautionary measure, the Town has already begun providing you with bottled water at the Town's expense. Because 1,4-dioxane does not evaporate easily or absorb through the skin readily, you may continue to use the water for other household activities, including bathing, showering, and washing dishes. A fact sheet with more information about 1,4-dioxane is attached. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data.

Potential Additional Sampling

Due to the presence of 1,4-dioxane in your private drinking water well, the Town would like to re-sample your private well on a monthly basis to evaluate the concentrations of 1,4-dioxane. The Town will contact you to determine a mutually agreeable schedule to continue monitoring your private well. In the meantime, please continue to use bottled water for drinking and cooking.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Donna Holway
2. Street Address: 11 Eldia Way
City/Town: Eastham Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 11 Eldia Way
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.
Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 11 Eldia Way (RES-24)

Lab Sample ID: 480-42740-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.19	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	1.3	J	2.5	0.54	ug/L	1		524.2	Total/NA
Benzene	0.16	J	0.50	0.13	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	0.84		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	1.0		0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	3.0		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 11 Eldia Way (RES-24)

Lab Sample ID: 480-42740-20

Date Collected: 07/25/13 13:05

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 13:18	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 13:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 13:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 13:18	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 13:18	1
1,1-Dichloroethane	0.19	J	0.50	0.074	ug/L			07/30/13 13:18	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 13:18	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 13:18	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 13:18	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 13:18	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 13:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 13:18	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 13:18	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 13:18	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 11 Eldia Way (RES-24)

Lab Sample ID: 480-42740-20

Date Collected: 07/25/13 13:05

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 13:18	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 13:18	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 13:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 13:18	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 13:18	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 13:18	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 13:18	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 13:18	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 13:18	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 13:18	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 13:18	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 13:18	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 13:18	1
Acetone	1.3	J	2.5	0.54	ug/L			07/30/13 13:18	1
Benzene	0.16	J	0.50	0.13	ug/L			07/30/13 13:18	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 13:18	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 13:18	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 13:18	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 13:18	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 13:18	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 13:18	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 13:18	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 13:18	1
Chloroform	ND		0.50	0.14	ug/L			07/30/13 13:18	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 13:18	1
cis-1,2-Dichloroethene	0.84		0.50	0.12	ug/L			07/30/13 13:18	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 13:18	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 13:18	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 13:18	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			07/30/13 13:18	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 13:18	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 13:18	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 13:18	1
Methyl tert-butyl ether	1.0		0.50	0.12	ug/L			07/30/13 13:18	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 13:18	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 13:18	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 13:18	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 13:18	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 13:18	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 13:18	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 13:18	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 13:18	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 13:18	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 13:18	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 13:18	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 13:18	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 13:18	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 13:18	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 13:18	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 11 Eldia Way (RES-24)

Lab Sample ID: 480-42740-20

Date Collected: 07/25/13 13:05

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 13:18	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 13:18	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 13:18	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	108		80 - 120		07/30/13 13:18	1
4-Bromofluorobenzene (Surr)	98		80 - 120		07/30/13 13:18	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.0		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	70		70 - 130	07/31/13 17:41	08/01/13 18:53	1

August 14, 2013

Daniel and Kristine Griswold
5 Arnold Road
Pelham, MA 01002

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
350 Meetinghouse Road

Dear Mr. and Mrs. Griswold:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/25/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

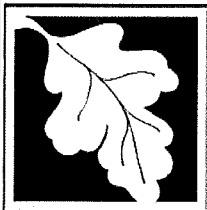
The sampling results indicate that 1,4-dioxane was detected in the drinking water sample obtained from your well at a concentration of 1.3. The reported concentration is greater than the most restrictive 0.3 ug/L drinking water guideline but less than the 1.5 ug/L Bottled Water Action Level. This Action Level of 1.5 ug/L is based on Site-specific conditions evaluated by a qualified risk assessor who has determined that no significant risk exists below this concentration. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-Dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Daniel and Kristine Griswold
2. Street Address: 5 Arnold Road
City/Town: Pelham Zip Code: 01002

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 350 Meetinghouse Road
City/Town: Eastham Zip Code: 02642
2. MCP phase of work during which the sampling will be/has been conducted:
- | | |
|---|---|
| ☒ Immediate Response Action | ☐ Phase III Feasibility Evaluation |
| ☐ Release Abatement Measure | ☐ Phase IV Remedy Implementation Plan |
| ☐ Utility-related Abatement Measure | ☐ Phase V/Remedy Operation Status |
| ☐ Phase I Initial Site Investigation | ☐ Post-Class C Operation, Maintenance and Monitoring |
| ☐ Phase II Comprehensive Site Assessment | ☐ Other _____ |
- (specify)
3. Description of property where sampling will be/has been conducted:
☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)
4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.
Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 350 Meetinghouse Road

Lab Sample ID: 480-42740-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.2	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.51		0.50	0.14	ug/L	1		524.2	Total/NA
Dichlorodifluoromethane	0.36	J *	0.50	0.070	ug/L	1		524.2	Total/NA
1,4-Dioxane	1.3		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 350 Meetinghouse Road

Lab Sample ID: 480-42740-22

Date Collected: 07/25/13 14:05

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 14:09	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 14:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 14:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 14:09	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 14:09	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 14:09	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 14:09	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 14:09	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 14:09	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 14:09	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 14:09	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 14:09	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 14:09	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 14:09	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 14:09	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 14:09	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 14:09	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 14:09	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 14:09	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 14:09	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 14:09	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 14:09	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 14:09	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 14:09	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 14:09	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 14:09	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 14:09	1
Acetone	2.2	J	2.5	0.54	ug/L			07/30/13 14:09	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: 350 Meetinghouse Road

Lab Sample ID: 480-42740-22

Date Collected: 07/25/13 14:05

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			07/30/13 14:09	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 14:09	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 14:09	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 14:09	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 14:09	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 14:09	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 14:09	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 14:09	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 14:09	1
Chloroform	0.51		0.50	0.14	ug/L			07/30/13 14:09	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 14:09	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 14:09	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 14:09	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 14:09	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 14:09	1
Dichlorodifluoromethane	0.36	J *	0.50	0.070	ug/L			07/30/13 14:09	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 14:09	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 14:09	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 14:09	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 14:09	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 14:09	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 14:09	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 14:09	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 14:09	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 14:09	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 14:09	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 14:09	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 14:09	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 14:09	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 14:09	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 14:09	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 14:09	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 14:09	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 14:09	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 14:09	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			07/30/13 14:09	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 14:09	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 14:09	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		07/30/13 14:09	1
4-Bromofluorobenzene (Surr)	104		80 - 120		07/30/13 14:09	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.3		0.20	0.040	ug/L		08/02/13 18:31	08/06/13 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	88		70 - 130	08/02/13 18:31	08/06/13 14:45	1

TestAmerica Buffalo

August 14, 2013

David Nussdorfer
Atlantic Oaks
1709 Main Street
Brewster, MA 02631

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
3700 State Highway

Dear Mr. Nussdorfer:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private wells on 7/23/13 and 7/25/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water samples obtained from your drinking water wells at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: David Nussdorfer - Atlantic Oaks
2. Street Address: 1709 Main Street
City/Town: Brewster Zip Code: 02631

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 3700 State Highway
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☐ residential ☒ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: Atlantic Oaks-South Well

Lab Sample ID: 480-42551-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.95	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	0.96		0.50	0.14	ug/L	1			524.2	Total/NA
Chloromethane	0.074	J	0.50	0.063	ug/L	1			524.2	Total/NA

Client Sample ID: Atlantic Oaks 'H' Well**Lab Sample ID: 480-42740-24**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.1		0.50	0.14	ug/L	1		524.2	Total/NA
Trihalomethanes, Total	1.1	J	2.0	1.0	ug/L	1		524.2	Total/NA

Client Sample ID: Atlantic Oaks North Well**Lab Sample ID: 480-42740-26**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.2	J B	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.74		0.50	0.14	ug/L	1		524.2	Total/NA
Chloromethane	0.091	J	0.50	0.063	ug/L	1		524.2	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: Atlantic Oaks-South Well

Lab Sample ID: 480-42551-1

Date Collected: 07/23/13 09:50

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 01:23	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 01:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 01:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 01:23	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 01:23	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 01:23	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 01:23	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 01:23	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 01:23	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 01:23	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 01:23	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 01:23	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 01:23	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 01:23	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 01:23	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 01:23	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 01:23	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 01:23	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 01:23	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 01:23	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 01:23	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 01:23	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 01:23	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 01:23	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 01:23	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 01:23	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 01:23	1
Acetone	0.95	J	2.5	0.54	ug/L			07/30/13 01:23	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 01:23	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 01:23	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 01:23	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 01:23	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 01:23	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 01:23	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 01:23	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 01:23	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 01:23	1
Chloroform	0.96		0.50	0.14	ug/L			07/30/13 01:23	1
Chloromethane	0.074	J	0.50	0.063	ug/L			07/30/13 01:23	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 01:23	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 01:23	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 01:23	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 01:23	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			07/30/13 01:23	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 01:23	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 01:23	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 01:23	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 01:23	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 01:23	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42551-1

Client Sample ID: Atlantic Oaks-South Well

Lab Sample ID: 480-42551-1

Date Collected: 07/23/13 09:50

Matrix: Water

Date Received: 07/25/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 01:23	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 01:23	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 01:23	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 01:23	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 01:23	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 01:23	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 01:23	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 01:23	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 01:23	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 01:23	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 01:23	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 01:23	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 01:23	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 01:23	1
Trichlorofluoromethane	ND *		0.50	0.044	ug/L			07/30/13 01:23	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			07/30/13 01:23	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 01:23	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 01:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	108		80 - 120					07/30/13 01:23	1
4-Bromofluorobenzene (Surr)	99		80 - 120					07/30/13 01:23	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/26/13 11:16	07/26/13 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	97		70 - 130				07/26/13 11:16	07/26/13 13:56	1

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: Atlantic Oaks 'H' Well

Lab Sample ID: 480-42740-24

Date Collected: 07/25/13 14:55

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			07/30/13 15:01	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			07/30/13 15:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			07/30/13 15:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			07/30/13 15:01	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			07/30/13 15:01	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			07/30/13 15:01	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			07/30/13 15:01	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			07/30/13 15:01	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			07/30/13 15:01	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			07/30/13 15:01	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 15:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			07/30/13 15:01	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			07/30/13 15:01	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			07/30/13 15:01	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			07/30/13 15:01	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			07/30/13 15:01	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/30/13 15:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			07/30/13 15:01	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 15:01	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			07/30/13 15:01	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			07/30/13 15:01	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			07/30/13 15:01	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			07/30/13 15:01	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 15:01	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			07/30/13 15:01	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			07/30/13 15:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			07/30/13 15:01	1
Acetone	ND		2.5	0.54	ug/L			07/30/13 15:01	1
Benzene	ND		0.50	0.13	ug/L			07/30/13 15:01	1
Bromobenzene	ND		0.50	0.13	ug/L			07/30/13 15:01	1
Bromochloromethane	ND		0.50	0.11	ug/L			07/30/13 15:01	1
Bromoform	ND		0.50	0.13	ug/L			07/30/13 15:01	1
Bromomethane	ND		0.50	0.051	ug/L			07/30/13 15:01	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			07/30/13 15:01	1
Chlorobenzene	ND		0.50	0.12	ug/L			07/30/13 15:01	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			07/30/13 15:01	1
Chloroethane	ND		0.50	0.070	ug/L			07/30/13 15:01	1
Chloroform	1.1		0.50	0.14	ug/L			07/30/13 15:01	1
Chloromethane	ND		0.50	0.063	ug/L			07/30/13 15:01	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			07/30/13 15:01	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			07/30/13 15:01	1
Dibromomethane	ND		0.50	0.17	ug/L			07/30/13 15:01	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			07/30/13 15:01	1
Dichlorodifluoromethane	ND *		0.50	0.070	ug/L			07/30/13 15:01	1
Ethylbenzene	ND		0.50	0.11	ug/L			07/30/13 15:01	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			07/30/13 15:01	1
Isopropylbenzene	ND		0.50	0.053	ug/L			07/30/13 15:01	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			07/30/13 15:01	1
Methylene Chloride	ND		0.50	0.25	ug/L			07/30/13 15:01	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: Atlantic Oaks 'H' Well

Lab Sample ID: 480-42740-24

Date Collected: 07/25/13 14:55

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			07/30/13 15:01	1
Naphthalene	ND		0.50	0.060	ug/L			07/30/13 15:01	1
n-Butylbenzene	ND		0.50	0.081	ug/L			07/30/13 15:01	1
N-Propylbenzene	ND		0.50	0.057	ug/L			07/30/13 15:01	1
o-Xylene	ND		0.50	0.044	ug/L			07/30/13 15:01	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			07/30/13 15:01	1
Styrene	ND		0.50	0.044	ug/L			07/30/13 15:01	1
t-Butanol	ND		10	2.5	ug/L			07/30/13 15:01	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			07/30/13 15:01	1
Tetrachloroethene	ND		0.50	0.067	ug/L			07/30/13 15:01	1
Toluene	ND		0.50	0.10	ug/L			07/30/13 15:01	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/30/13 15:01	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			07/30/13 15:01	1
Trichloroethene	ND		0.50	0.060	ug/L			07/30/13 15:01	1
Trichlorofluoromethane	ND *		0.50	0.044	ug/L			07/30/13 15:01	1
Trihalomethanes, Total	1.1	J	2.0	1.0	ug/L			07/30/13 15:01	1
Vinyl chloride	ND		0.50	0.059	ug/L			07/30/13 15:01	1
Xylenes, Total	ND		1.0	0.20	ug/L			07/30/13 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		07/30/13 15:01	1
4-Bromofluorobenzene (Surr)	104		80 - 120		07/30/13 15:01	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	76		70 - 130	07/31/13 17:41	08/01/13 19:39	1

Client Sample ID: Atlantic Oaks North Well

Lab Sample ID: 480-42740-26

Date Collected: 07/25/13 15:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/01/13 08:52	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/01/13 08:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/01/13 08:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/01/13 08:52	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/01/13 08:52	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/01/13 08:52	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/01/13 08:52	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/01/13 08:52	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/01/13 08:52	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/01/13 08:52	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/01/13 08:52	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/01/13 08:52	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/01/13 08:52	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/01/13 08:52	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: Atlantic Oaks North Well

Lab Sample ID: 480-42740-26

Date Collected: 07/25/13 15:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/01/13 08:52	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/01/13 08:52	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/01/13 08:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/01/13 08:52	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/01/13 08:52	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/01/13 08:52	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/01/13 08:52	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/01/13 08:52	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/01/13 08:52	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/01/13 08:52	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/01/13 08:52	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/01/13 08:52	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/01/13 08:52	1
Acetone	2.2	J B	2.5	0.54	ug/L			08/01/13 08:52	1
Benzene	ND		0.50	0.13	ug/L			08/01/13 08:52	1
Bromobenzene	ND		0.50	0.13	ug/L			08/01/13 08:52	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/01/13 08:52	1
Bromoform	ND		0.50	0.13	ug/L			08/01/13 08:52	1
Bromomethane	ND		0.50	0.051	ug/L			08/01/13 08:52	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/01/13 08:52	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/01/13 08:52	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/01/13 08:52	1
Chloroethane	ND		0.50	0.070	ug/L			08/01/13 08:52	1
Chloroform	0.74		0.50	0.14	ug/L			08/01/13 08:52	1
Chloromethane	0.091	J	0.50	0.063	ug/L			08/01/13 08:52	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/01/13 08:52	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/01/13 08:52	1
Dibromomethane	ND		0.50	0.17	ug/L			08/01/13 08:52	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/01/13 08:52	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/01/13 08:52	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/01/13 08:52	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/01/13 08:52	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/01/13 08:52	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/01/13 08:52	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/01/13 08:52	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/01/13 08:52	1
Naphthalene	ND		0.50	0.060	ug/L			08/01/13 08:52	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/01/13 08:52	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/01/13 08:52	1
o-Xylene	ND		0.50	0.044	ug/L			08/01/13 08:52	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/01/13 08:52	1
Styrene	ND		0.50	0.044	ug/L			08/01/13 08:52	1
t-Butanol	ND		10	2.5	ug/L			08/01/13 08:52	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/01/13 08:52	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/01/13 08:52	1
Toluene	ND		0.50	0.10	ug/L			08/01/13 08:52	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/01/13 08:52	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/01/13 08:52	1
Trichloroethene	ND		0.50	0.060	ug/L			08/01/13 08:52	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42740-1

Client Sample ID: Atlantic Oaks North Well

Lab Sample ID: 480-42740-26

Date Collected: 07/25/13 15:35

Matrix: Water

Date Received: 07/27/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/01/13 08:52	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/01/13 08:52	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/01/13 08:52	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/01/13 08:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	99		80 - 120		08/01/13 08:52	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/01/13 08:52	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		07/31/13 17:41	08/01/13 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	72		70 - 130	07/31/13 17:41	08/01/13 20:02	1

August 14, 2013

James and Michele Dayton
109 Hebron Road
Bolton, CT 06043

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
25 Deepwood Drive

Dear Mr. and Mrs. Dayton:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/30/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.073J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: James and Michele Dayton
2. Street Address: 109 Hebron Road
City/Town: Bolton, CT Zip Code: 06043

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 25 Deepwood Drive
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 25 Deepwood Drive

Lab Sample ID: 480-42959-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0		2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.72		0.50	0.14	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.25	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.073	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 25 Deepwood Drive

Lab Sample ID: 480-42959-1

Date Collected: 07/30/13 09:50

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 12:24	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 12:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 12:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 12:24	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 12:24	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/05/13 12:24	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 12:24	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 12:24	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 12:24	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 12:24	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 12:24	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 12:24	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 12:24	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 12:24	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 12:24	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 12:24	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 12:24	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 12:24	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 12:24	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 12:24	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 12:24	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 12:24	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 12:24	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 12:24	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 12:24	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 12:24	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 12:24	1
Acetone	3.0		2.5	0.54	ug/L			08/05/13 12:24	1
Benzene	ND		0.50	0.13	ug/L			08/05/13 12:24	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 12:24	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 12:24	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 12:24	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 12:24	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 12:24	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 12:24	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 12:24	1
Chloroethane	ND		0.50	0.070	ug/L			08/05/13 12:24	1
Chloroform	0.72		0.50	0.14	ug/L			08/05/13 12:24	1
Chloromethane	ND		0.50	0.063	ug/L			08/05/13 12:24	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/05/13 12:24	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 12:24	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 12:24	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 12:24	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 12:24	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 12:24	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 12:24	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 12:24	1
Methyl tert-butyl ether	0.25	J	0.50	0.12	ug/L			08/05/13 12:24	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 12:24	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 25 Deepwood Drive

Lab Sample ID: 480-42959-1

Date Collected: 07/30/13 09:50

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 12:24	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 12:24	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 12:24	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 12:24	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 12:24	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 12:24	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 12:24	1
t-Butanol	ND		10	2.5	ug/L			08/05/13 12:24	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 12:24	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 12:24	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 12:24	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 12:24	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 12:24	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 12:24	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 12:24	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 12:24	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 12:24	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	101		80 - 120					08/05/13 12:24	1
4-Bromofluorobenzene (Surr)	101		80 - 120					08/05/13 12:24	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.073	J	0.20	0.040	ug/L		08/02/13 18:31	08/06/13 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	94		70 - 130				08/02/13 18:31	08/06/13 15:33	1

August 14, 2013

Stephen Peschel
325 S Kent Road
Kent, CT 06785

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
5 Whidah Lane

Dear Mr. Peschel:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/30/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Stephen Peschel
2. Street Address: 325 S Kent Road
City/Town: Kent, CT Zip Code: 06785

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 5 Whidah Lane
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 5 Whidah Lane

Lab Sample ID: 480-42959-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.16	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 5 Whidah Lane

Lab Sample ID: 480-42959-3

Date Collected: 07/30/13 10:40

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 13:18	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 13:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 13:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 13:18	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 13:18	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/05/13 13:18	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 13:18	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 13:18	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 13:18	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 13:18	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 13:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 13:18	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 13:18	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 13:18	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 5 Whidah Lane

Lab Sample ID: 480-42959-3

Date Collected: 07/30/13 10:40

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 13:18	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 13:18	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 13:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 13:18	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 13:18	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 13:18	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 13:18	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 13:18	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 13:18	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 13:18	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 13:18	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 13:18	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 13:18	1
Acetone	ND		2.5	0.54	ug/L			08/05/13 13:18	1
Benzene	ND		0.50	0.13	ug/L			08/05/13 13:18	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 13:18	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 13:18	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 13:18	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 13:18	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 13:18	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 13:18	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 13:18	1
Chloroethane	ND		0.50	0.070	ug/L			08/05/13 13:18	1
Chloroform	0.16 J		0.50	0.14	ug/L			08/05/13 13:18	1
Chloromethane	ND		0.50	0.063	ug/L			08/05/13 13:18	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/05/13 13:18	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 13:18	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 13:18	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 13:18	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 13:18	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 13:18	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 13:18	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 13:18	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/05/13 13:18	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 13:18	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 13:18	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 13:18	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 13:18	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 13:18	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 13:18	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 13:18	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 13:18	1
t-Butanol	ND		10	2.5	ug/L			08/05/13 13:18	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 13:18	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 13:18	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 13:18	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 13:18	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 13:18	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 13:18	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 5 Whidah Lane

Lab Sample ID: 480-42959-3

Date Collected: 07/30/13 10:40

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 13:18	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 13:18	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 13:18	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		08/05/13 13:18	1
4-Bromofluorobenzene (Surr)	102		80 - 120		08/05/13 13:18	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/02/13 18:31	08/06/13 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	78		70 - 130	08/02/13 18:31	08/06/13 15:55	1

August 14, 2013

Sandra Larsen
P.O. Box 464
Eastham, MA 02642

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
75 Deepwood Drive

Dear Ms. Larsen:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/30/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
Well Testing Analytical Data
Sample Results Key
Fact Sheet on 1,4-dioxane
Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Sandra Larsen
2. Street Address: P.O. Box 464
City/Town: Eastham, MA Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 75 Deepwood Drive
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 75 Deepwood Drive

Lab Sample ID: 480-42959-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.0	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.16	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 75 Deepwood Drive

Lab Sample ID: 480-42959-5

Date Collected: 07/30/13 11:35

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 14:08	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 14:08	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 14:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 14:08	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 14:08	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/05/13 14:08	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 14:08	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 14:08	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 14:08	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 14:08	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 14:08	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 14:08	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 14:08	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 14:08	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 14:08	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 14:08	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 14:08	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 14:08	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 14:08	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 14:08	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 14:08	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 14:08	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 14:08	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 14:08	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 14:08	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 14:08	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 14:08	1
Acetone	1.0	J	2.5	0.54	ug/L			08/05/13 14:08	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 75 Deepwood Drive

Lab Sample ID: 480-42959-5

Date Collected: 07/30/13 11:35

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			08/05/13 14:08	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 14:08	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 14:08	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 14:08	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 14:08	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 14:08	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 14:08	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 14:08	1
Chloroethane	ND		0.50	0.070	ug/L			08/05/13 14:08	1
Chloroform	0.16	J	0.50	0.14	ug/L			08/05/13 14:08	1
Chloromethane	ND		0.50	0.063	ug/L			08/05/13 14:08	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/05/13 14:08	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 14:08	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 14:08	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 14:08	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 14:08	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 14:08	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 14:08	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 14:08	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/05/13 14:08	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 14:08	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 14:08	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 14:08	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 14:08	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 14:08	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 14:08	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 14:08	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 14:08	1
t-Butanol	ND		10	2.5	ug/L			08/05/13 14:08	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 14:08	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 14:08	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 14:08	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 14:08	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 14:08	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 14:08	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 14:08	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 14:08	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 14:08	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/05/13 14:08	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/05/13 14:08	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/02/13 18:31	08/06/13 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	88		70 - 130	08/02/13 18:31	08/06/13 16:20	1

TestAmerica Buffalo

August 14, 2013

Stuart and Jane Pratt
4 Pine Trail
Carmel, NY 10512

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
65 Deepwood Drive

Dear Mr. and Mrs. Pratt:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/30/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

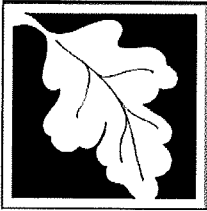
The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.29. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road

City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Stuart and Jane Pratt

2. Street Address: 4 Pine Trail

City/Town: Carmel, NY Zip Code: 10512

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 65 Deepwood Drive

City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____

(specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 65 Deepwood Drive

Lab Sample ID: 480-42959-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.8	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	0.49	J	0.50	0.14	ug/L	1			524.2	Total/NA
1,4-Dioxane	0.29		0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 65 Deepwood Drive

Lab Sample ID: 480-42959-7

Date Collected: 07/30/13 12:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 14:57	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 14:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 14:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 14:57	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 14:57	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/05/13 14:57	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 14:57	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 14:57	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 14:57	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 14:57	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 14:57	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 14:57	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 14:57	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 14:57	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 14:57	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 14:57	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 14:57	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 14:57	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 14:57	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 14:57	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 14:57	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 14:57	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 14:57	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 14:57	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 14:57	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 14:57	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 14:57	1
Acetone	1.8 J		2.5	0.54	ug/L			08/05/13 14:57	1
Benzene	ND		0.50	0.13	ug/L			08/05/13 14:57	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 14:57	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 14:57	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 14:57	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 14:57	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 14:57	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 14:57	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 14:57	1
Chloroethane	ND		0.50	0.070	ug/L			08/05/13 14:57	1
Chloroform	0.49 J		0.50	0.14	ug/L			08/05/13 14:57	1
Chloromethane	ND		0.50	0.063	ug/L			08/05/13 14:57	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/05/13 14:57	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 14:57	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 14:57	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 14:57	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 14:57	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 14:57	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 14:57	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 14:57	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/05/13 14:57	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 14:57	1

6

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 65 Deepwood Drive

Lab Sample ID: 480-42959-7

Date Collected: 07/30/13 12:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 14:57	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 14:57	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 14:57	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 14:57	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 14:57	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 14:57	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 14:57	1
t-Butanol	ND		10	2.5	ug/L			08/05/13 14:57	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 14:57	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 14:57	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 14:57	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 14:57	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 14:57	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 14:57	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 14:57	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 14:57	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 14:57	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	100		80 - 120		08/05/13 14:57	1
4-Bromofluorobenzene (Surr)	102		80 - 120		08/05/13 14:57	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.29		0.20	0.040	ug/L		08/02/13 18:31	08/06/13 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	89		70 - 130	08/02/13 18:31	08/06/13 16:42	1

August 14, 2013

John and Elizabeth Speziale
P.O. Box 428
Eastham, MA 02642

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
70 Deepwood Drive

Dear Mr. and Mrs. Speziale:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/30/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.073J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: John and Elizabeth Speziale
2. Street Address: P.O. Box 428
City/Town: Eastham Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 70 Deepwood Drive
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____

(specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.
Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 70 Deepwood Drive

Lab Sample ID: 480-42959-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.68		0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.073	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 70 Deepwood Drive

Lab Sample ID: 480-42959-9

Date Collected: 07/30/13 13:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 15:47	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 15:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 15:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 15:47	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 15:47	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/05/13 15:47	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 15:47	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 15:47	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 15:47	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 15:47	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 15:47	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 15:47	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 15:47	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 15:47	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 70 Deepwood Drive

Lab Sample ID: 480-42959-9

Date Collected: 07/30/13 13:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 15:47	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 15:47	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 15:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 15:47	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 15:47	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 15:47	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 15:47	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 15:47	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 15:47	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 15:47	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 15:47	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 15:47	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 15:47	1
Acetone	1.1	J	2.5	0.54	ug/L			08/05/13 15:47	1
Benzene	ND		0.50	0.13	ug/L			08/05/13 15:47	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 15:47	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 15:47	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 15:47	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 15:47	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 15:47	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 15:47	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 15:47	1
Chloroethane	ND		0.50	0.070	ug/L			08/05/13 15:47	1
Chloroform	0.68		0.50	0.14	ug/L			08/05/13 15:47	1
Chloromethane	ND		0.50	0.063	ug/L			08/05/13 15:47	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/05/13 15:47	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 15:47	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 15:47	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 15:47	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 15:47	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 15:47	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 15:47	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 15:47	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/05/13 15:47	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 15:47	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 15:47	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 15:47	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 15:47	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 15:47	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 15:47	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 15:47	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 15:47	1
t-Butanol	ND		10	2.5	ug/L			08/05/13 15:47	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 15:47	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 15:47	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 15:47	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 15:47	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 15:47	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 15:47	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 70 Deepwood Drive

Lab Sample ID: 480-42959-9

Date Collected: 07/30/13 13:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 15:47	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 15:47	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 15:47	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	100		80 - 120		08/05/13 15:47	1
4-Bromofluorobenzene (Surr)	100		80 - 120		08/05/13 15:47	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.073	J	0.20	0.040	ug/L		08/02/13 18:31	08/06/13 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	92		70 - 130	08/02/13 18:31	08/06/13 17:07	1

August 14, 2013

John Cunningham
P.O. Box 372
Eastham, MA 02642

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
30 Knowles Street

Dear Mr. Cunningham:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/30/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1,4-dioxane was detected in the drinking water sample obtained from your well at a concentration of 5.1. The reported concentration is greater than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. This Action Level of 1.5 ug/L is based on Site-specific conditions evaluated by a qualified risk assessor who has determined that a potential significant risk associated with ingestion may exist at this concentration. The use of bottled water, however, will eliminate this exposure pathway. Given this information, and as a precautionary measure, the Town has already begun providing you with bottled water at the Town's expense. Because 1,4-dioxane does not evaporate easily or absorb through the skin readily, you may continue to use the water for other household activities, including bathing, showering, and washing dishes. A fact sheet with more information about 1,4-dioxane is attached. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data.

Potential Additional Sampling

Due to the presence of 1,4-dioxane in your private drinking water well, the Town would like to re-sample your private well on a monthly basis to evaluate the concentrations of 1,4-dioxane. The Town will contact you to determine a mutually agreeable schedule to continue monitoring your private well. In the meantime, please continue to use bottled water for drinking and cooking.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road

City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: John Cunningham

2. Street Address: P.O. Box 372

City/Town: Eastham Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 30 Knowles Street

City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____

(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 30 Knowles Street (RES-31)

Lab Sample ID: 480-42959-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.32	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	1.4	J	2.5	0.54	ug/L	1		524.2	Total/NA
Benzene	0.29	J	0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.27	J	0.50	0.070	ug/L	1		524.2	Total/NA
Chloroform	0.18	J	0.50	0.14	ug/L	1		524.2	Total/NA
Chloromethane	0.25	J	0.50	0.063	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	1.5		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.77		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	7.8	J	10	2.5	ug/L	1		524.2	Total/NA
1,4-Dioxane	5.1		0.20	0.040	ug/L	1		522 MOD	Total/NA

Lab Sample ID: 480-42959-12

Client Sample ID: 30 Knowles Street (RES-31)

Lab Sample ID: 480-42959-11

Date Collected: 07/30/13 14:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 16:37	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 16:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 16:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 16:37	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 16:37	1
1,1-Dichloroethane	0.32	J	0.50	0.074	ug/L			08/05/13 16:37	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 16:37	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 16:37	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 16:37	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 16:37	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 16:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 16:37	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 16:37	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 16:37	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 16:37	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 16:37	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 16:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 16:37	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 16:37	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 16:37	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 16:37	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 16:37	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 16:37	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 16:37	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 16:37	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 16:37	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 16:37	1
Acetone	1.4	J	2.5	0.54	ug/L			08/05/13 16:37	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-42959-1

Client Sample ID: 30 Knowles Street (RES-31)

Lab Sample ID: 480-42959-11

Date Collected: 07/30/13 14:55

Matrix: Water

Date Received: 08/01/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.29	J	0.50	0.13	ug/L			08/05/13 16:37	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 16:37	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 16:37	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 16:37	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 16:37	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 16:37	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 16:37	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 16:37	1
Chloroethane	0.27	J	0.50	0.070	ug/L			08/05/13 16:37	1
Chloroform	0.18	J	0.50	0.14	ug/L			08/05/13 16:37	1
Chloromethane	0.25	J	0.50	0.063	ug/L			08/05/13 16:37	1
cis-1,2-Dichloroethene	1.5		0.50	0.12	ug/L			08/05/13 16:37	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 16:37	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 16:37	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 16:37	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 16:37	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 16:37	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 16:37	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 16:37	1
Methyl tert-butyl ether	0.77		0.50	0.12	ug/L			08/05/13 16:37	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 16:37	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 16:37	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 16:37	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 16:37	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 16:37	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 16:37	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 16:37	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 16:37	1
t-Butanol	7.8	J	10	2.5	ug/L			08/05/13 16:37	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 16:37	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 16:37	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 16:37	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 16:37	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 16:37	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 16:37	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 16:37	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 16:37	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 16:37	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/05/13 16:37	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/05/13 16:37	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	5.1		0.20	0.040	ug/L		08/02/13 18:31	08/06/13 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	77		70 - 130	08/02/13 18:31	08/06/13 17:29	1

TestAmerica Buffalo

August 15, 2013

John and Diane Cannon
1666 Washington Street
Boston, MA 02118

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
65 Piper Lane

Dear Mr. and Mrs. Cannon:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/31/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
Well Testing Analytical Data
Sample Results Key
Fact Sheet on 1,4-dioxane
Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: John and Diane Cannon
2. Street Address: 1666 Washington Street
City/Town: Boston Zip Code: 02118

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 65 Piper Lane
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 65 Piper Lane

Lab Sample ID: 480-43031-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.6	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloromethane	0.12	J	0.50	0.063	ug/L	1		524.2	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 65 Piper Lane

Lab Sample ID: 480-43031-1

Date Collected: 07/31/13 10:00

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/05/13 23:42	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/05/13 23:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/05/13 23:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/05/13 23:42	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/05/13 23:42	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/05/13 23:42	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/05/13 23:42	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/05/13 23:42	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/05/13 23:42	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/05/13 23:42	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 23:42	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/05/13 23:42	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/05/13 23:42	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/05/13 23:42	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/05/13 23:42	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/05/13 23:42	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/05/13 23:42	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/05/13 23:42	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 23:42	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/05/13 23:42	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/05/13 23:42	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/05/13 23:42	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/05/13 23:42	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 23:42	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/05/13 23:42	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/05/13 23:42	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/05/13 23:42	1
Acetone	1.6 J		2.5	0.54	ug/L			08/05/13 23:42	1
Benzene	ND		0.50	0.13	ug/L			08/05/13 23:42	1
Bromobenzene	ND		0.50	0.13	ug/L			08/05/13 23:42	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/05/13 23:42	1
Bromoform	ND		0.50	0.13	ug/L			08/05/13 23:42	1
Bromomethane	ND		0.50	0.051	ug/L			08/05/13 23:42	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/05/13 23:42	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/05/13 23:42	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/05/13 23:42	1
Chloroethane	ND		0.50	0.070	ug/L			08/05/13 23:42	1
Chloroform	ND		0.50	0.14	ug/L			08/05/13 23:42	1
Chloromethane	0.12 J		0.50	0.063	ug/L			08/05/13 23:42	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/05/13 23:42	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/05/13 23:42	1
Dibromomethane	ND		0.50	0.17	ug/L			08/05/13 23:42	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/05/13 23:42	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/05/13 23:42	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/05/13 23:42	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/05/13 23:42	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/05/13 23:42	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/05/13 23:42	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/05/13 23:42	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 65 Piper Lane

Lab Sample ID: 480-43031-1

Date Collected: 07/31/13 10:00

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/05/13 23:42	1
Naphthalene	ND		0.50	0.060	ug/L			08/05/13 23:42	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/05/13 23:42	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/05/13 23:42	1
o-Xylene	ND		0.50	0.044	ug/L			08/05/13 23:42	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/05/13 23:42	1
Styrene	ND		0.50	0.044	ug/L			08/05/13 23:42	1
t-Butanol	ND		10	2.5	ug/L			08/05/13 23:42	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/05/13 23:42	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/05/13 23:42	1
Toluene	ND		0.50	0.10	ug/L			08/05/13 23:42	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/05/13 23:42	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/05/13 23:42	1
Trichloroethene	ND		0.50	0.060	ug/L			08/05/13 23:42	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/05/13 23:42	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/05/13 23:42	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/05/13 23:42	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/05/13 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120					08/05/13 23:42	1
4-Bromofluorobenzene (Surr)	101		80 - 120					08/05/13 23:42	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/05/13 19:22	08/07/13 02:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	109		70 - 130				08/05/13 19:22	08/07/13 02:41	1

August 15, 2013

Jack Conway Realty
Heather Fernald
137 Washington Street
Norwell, MA 02061

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
3 Sharon Circle

Dear Ms. Fernald:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/31/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.064J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Jack Conway Realty attn Heather Fernald
2. Street Address: 137 Washington Street
City/Town: Norwell Zip Code: 02061

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 3 Sharon Circle
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.
Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 3 Sharon Circle

Lab Sample ID: 480-43031-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	2.5	0.54	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.064	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 3 Sharon Circle

Lab Sample ID: 480-43031-3

Date Collected: 07/31/13 10:50

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 00:34
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 00:34
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 00:34
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 00:34
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 00:34
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 00:34
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 00:34
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 00:34
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 00:34
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 00:34
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 00:34
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 00:34
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 00:34
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 00:34

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 3 Sharon Circle

Lab Sample ID: 480-43031-3

Date Collected: 07/31/13 10:50

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 00:34	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 00:34	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 00:34	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 00:34	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 00:34	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 00:34	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 00:34	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 00:34	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 00:34	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 00:34	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 00:34	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 00:34	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 00:34	1
Acetone	1.3	J	2.5	0.54	ug/L			08/06/13 00:34	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 00:34	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 00:34	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 00:34	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 00:34	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 00:34	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 00:34	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 00:34	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 00:34	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 00:34	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 00:34	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 00:34	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 00:34	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 00:34	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 00:34	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 00:34	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 00:34	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 00:34	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 00:34	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 00:34	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 00:34	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 00:34	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 00:34	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 00:34	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 00:34	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 00:34	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 00:34	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 00:34	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 00:34	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 00:34	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 00:34	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 00:34	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 00:34	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 00:34	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 00:34	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 00:34	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 3 Sharon Circle

Lab Sample ID: 480-43031-3

Date Collected: 07/31/13 10:50

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 00:34	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 00:34	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 00:34	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		08/06/13 00:34	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/06/13 00:34	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.064	J	0.20	0.040	ug/L		08/05/13 19:22	08/07/13 03:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	106		70 - 130	08/05/13 19:22	08/07/13 03:04	1

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August 15, 2013

Nancy Correia
P.O. Box 686
North Eastham, MA 02651

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
200 Glacier Hills Road

Dear Ms. Correia:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/31/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Nancy Correia
2. Street Address: P.O. Box 686
City/Town: North Eastham Zip Code: 02651

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 200 Glacier Hills Road
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 200 Glacier Hills Road

Lab Sample ID: 480-43031-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.78	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	0.45	J	0.50	0.14	ug/L	1			524.2	Total/NA

Client Sample ID: 200 Glacier Hills Road

Lab Sample ID: 480-43031-5

Date Collected: 07/31/13 11:20

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 01:25	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 01:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 01:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 01:25	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 01:25	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 01:25	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 01:25	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 01:25	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 01:25	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 01:25	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 01:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 01:25	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 01:25	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 01:25	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 01:25	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 01:25	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 01:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 01:25	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 01:25	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 01:25	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 01:25	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 01:25	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 01:25	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 01:25	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 01:25	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 01:25	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 01:25	1
Acetone	0.78	J	2.5	0.54	ug/L			08/06/13 01:25	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 200 Glacier Hills Road

Lab Sample ID: 480-43031-5

Date Collected: 07/31/13 11:20

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			08/06/13 01:25	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 01:25	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 01:25	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 01:25	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 01:25	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 01:25	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 01:25	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 01:25	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 01:25	1
Chloroform	0.45	J	0.50	0.14	ug/L			08/06/13 01:25	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 01:25	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 01:25	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 01:25	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 01:25	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 01:25	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 01:25	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 01:25	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 01:25	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 01:25	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 01:25	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 01:25	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 01:25	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 01:25	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 01:25	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 01:25	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 01:25	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 01:25	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 01:25	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 01:25	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 01:25	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 01:25	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 01:25	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 01:25	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 01:25	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 01:25	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 01:25	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 01:25	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 01:25	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 01:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		08/06/13 01:25	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/06/13 01:25	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/05/13 19:22	08/07/13 03:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	88		70 - 130	08/05/13 19:22	08/07/13 03:28	1

TestAmerica Buffalo

August 15, 2013

William and Janet Dunne
9 Camille Lane
West Simsbury, CT 06092

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
300 Glacier Hills Road

Dear Mr. and Mrs. Dunne:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/31/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.077J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
Well Testing Analytical Data
Sample Results Key
Fact Sheet on 1,4-dioxane
Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: William and Janet Dunne
2. Street Address: 9 Camille Lane
City/Town: West Simsbury, CT Zip Code: 06092

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 300 Glacier Hills Road
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 300 Glacier Hills

Lab Sample ID: 480-43031-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.2	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	0.86		0.50	0.14	ug/L	1			524.2	Total/NA
1,4-Dioxane	0.077	J	0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 300 Glacier Hills

Lab Sample ID: 480-43031-7

Date Collected: 07/31/13 12:10

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 02:15	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 02:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 02:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 02:15	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 02:15	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 02:15	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 02:15	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 02:15	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 02:15	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 02:15	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 02:15	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 02:15	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 02:15	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 02:15	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 02:15	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 02:15	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 02:15	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 02:15	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 02:15	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 02:15	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 02:15	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 02:15	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 02:15	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 02:15	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 02:15	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 02:15	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 02:15	1
Acetone	1.2	J	2.5	0.54	ug/L			08/06/13 02:15	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 02:15	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 02:15	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 02:15	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 02:15	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 02:15	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 02:15	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 02:15	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 02:15	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 02:15	1
Chloroform	0.86		0.50	0.14	ug/L			08/06/13 02:15	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 02:15	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 02:15	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 02:15	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 02:15	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 02:15	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 02:15	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 02:15	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 02:15	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 02:15	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 02:15	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 02:15	1

6

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 300 Glacier Hills

Lab Sample ID: 480-43031-7

Date Collected: 07/31/13 12:10

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 02:15	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 02:15	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 02:15	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 02:15	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 02:15	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 02:15	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 02:15	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 02:15	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 02:15	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 02:15	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 02:15	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 02:15	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 02:15	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 02:15	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 02:15	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 02:15	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 02:15	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		08/06/13 02:15	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/06/13 02:15	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.077	J	0.20	0.040	ug/L		08/05/13 19:22	08/07/13 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	101		70 - 130	08/05/13 19:22	08/07/13 04:14	1

August 15, 2013

Ronald and Suzanne Chad
35 Surrey Drive
Eastham, MA 02642

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
35 Surrey Drive

Dear Mr. and Mrs. Chad:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/31/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

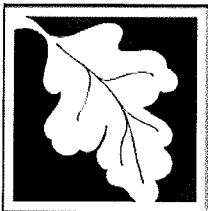
The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.070J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
Well Testing Analytical Data
Sample Results Key
Fact Sheet on 1,4-dioxane
Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Ronald and Suzanne Chad
2. Street Address: 35 Surrey Drive
City/Town: Eastham Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 35 Surrey Drive
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 35 Surrey Drive

Lab Sample ID: 480-43031-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.1	J	2.5	0.54	ug/L	1			524.2	Total/NA
Methyl tert-butyl ether	0.22	J	0.50	0.12	ug/L	1			524.2	Total/NA
1,4-Dioxane	0.070	J	0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample ID: 35 Surrey Drive

Lab Sample ID: 480-43031-9

Date Collected: 07/31/13 13:05

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 03:05	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 03:05	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 03:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 03:05	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 03:05	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 03:05	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 03:05	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 03:05	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 03:05	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 03:05	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 03:05	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 03:05	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 03:05	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 03:05	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 35 Surrey Drive

Lab Sample ID: 480-43031-9

Date Collected: 07/31/13 13:05

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 03:05	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 03:05	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 03:05	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 03:05	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 03:05	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 03:05	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 03:05	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 03:05	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 03:05	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 03:05	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 03:05	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 03:05	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 03:05	1
Acetone	1.1 J		2.5	0.54	ug/L			08/06/13 03:05	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 03:05	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 03:05	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 03:05	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 03:05	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 03:05	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 03:05	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 03:05	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 03:05	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 03:05	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 03:05	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 03:05	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 03:05	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 03:05	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 03:05	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 03:05	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 03:05	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 03:05	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 03:05	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 03:05	1
Methyl tert-butyl ether	0.22 J		0.50	0.12	ug/L			08/06/13 03:05	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 03:05	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 03:05	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 03:05	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 03:05	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 03:05	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 03:05	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 03:05	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 03:05	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 03:05	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 03:05	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 03:05	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 03:05	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 03:05	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 03:05	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 03:05	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 35 Surrey Drive

Lab Sample ID: 480-43031-9

Date Collected: 07/31/13 13:05

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 03:05	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 03:05	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 03:05	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		08/06/13 03:05	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/06/13 03:05	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.070	J	0.20	0.040	ug/L		08/05/13 19:22	08/07/13 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	106		70 - 130	08/05/13 19:22	08/07/13 04:36	1

August 15, 2013

Beverly Fry
1322 Virginia Avenue
St Cloud, FL 32769

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
40 Chipman Street

Dear Ms. Fry:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/31/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.046J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Beverly Fry
2. Street Address: 1322 Virginia Avenue
City/Town: St Cloud, FL Zip Code: 32769

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 40 Chipman Street
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____

(specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 40 Chipman Street

Lab Sample ID: 480-43031-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	2.5	0.54	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.046	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 40 Chipman Street

Lab Sample ID: 480-43031-12

Date Collected: 07/31/13 09:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 04:21	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 04:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 04:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 04:21	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 04:21	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 04:21	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 04:21	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 04:21	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 04:21	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 04:21	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 04:21	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 04:21	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 04:21	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 04:21	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 04:21	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 04:21	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 04:21	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 04:21	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 04:21	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 04:21	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 04:21	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 04:21	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 04:21	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 04:21	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 04:21	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 04:21	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 04:21	1
Acetone	1.3	J	2.5	0.54	ug/L			08/06/13 04:21	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 04:21	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 04:21	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 04:21	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 04:21	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 04:21	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 04:21	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 04:21	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 04:21	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 04:21	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 04:21	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 04:21	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 04:21	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 04:21	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 04:21	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 04:21	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 04:21	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 04:21	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 04:21	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 04:21	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 04:21	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 04:21	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 40 Chipman Street

Lab Sample ID: 480-43031-12

Date Collected: 07/31/13 09:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 04:21	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 04:21	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 04:21	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 04:21	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 04:21	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 04:21	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 04:21	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 04:21	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 04:21	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 04:21	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 04:21	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 04:21	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 04:21	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 04:21	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 04:21	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 04:21	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 04:21	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		08/06/13 04:21	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/06/13 04:21	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.046	J	0.20	0.040	ug/L		08/05/13 19:22	08/07/13 05:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	108		70 - 130	08/05/13 19:22	08/07/13 05:21	1

August 15, 2013

Jack Conway Realty
Heather Fernald
137 Washington Street
Norwell, MA 02061

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
50 Starlight Lane

Dear Ms. Fernald:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/31/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

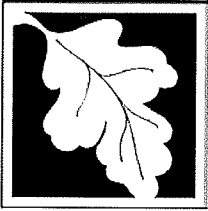
The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.13J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Jack Conway Realty attn Heather Fernald
2. Street Address: 137 Washington Street
City/Town: Norwell Zip Code: 02061

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 50 Starlight Lane
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.
Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 50 Starlight Lane

Lab Sample ID: 480-43031-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.0	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloromethane	0.078	J	0.50	0.063	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.13	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample ID: 50 Starlight Lane

Lab Sample ID: 480-43031-14

Date Collected: 07/31/13 11:15

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 13:47	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 13:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 13:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 13:47	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 13:47	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 13:47	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 13:47	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 13:47	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 13:47	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 13:47	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 13:47	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 13:47	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 13:47	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 13:47	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 50 Starlight Lane

Lab Sample ID: 480-43031-14

Date Collected: 07/31/13 11:15

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 13:47	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 13:47	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 13:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 13:47	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 13:47	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 13:47	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 13:47	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 13:47	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 13:47	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 13:47	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 13:47	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 13:47	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 13:47	1
Acetone	1.0	J	2.5	0.54	ug/L			08/06/13 13:47	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 13:47	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 13:47	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 13:47	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 13:47	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 13:47	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 13:47	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 13:47	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 13:47	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 13:47	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 13:47	1
Chloromethane	0.078	J	0.50	0.063	ug/L			08/06/13 13:47	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 13:47	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 13:47	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 13:47	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 13:47	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 13:47	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 13:47	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 13:47	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 13:47	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 13:47	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 13:47	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 13:47	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 13:47	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 13:47	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 13:47	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 13:47	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 13:47	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 13:47	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 13:47	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 13:47	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 13:47	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 13:47	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 13:47	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 13:47	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 13:47	1

6

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 50 Starlight Lane

Lab Sample ID: 480-43031-14

Date Collected: 07/31/13 11:15

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 13:47	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 13:47	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 13:47	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/06/13 13:47	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/06/13 13:47	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.13	J	0.20	0.040	ug/L		08/05/13 19:22	08/07/13 05:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	99		70 - 130	08/05/13 19:22	08/07/13 05:45	1

August 15, 2013

Charles and Cheryl Roy
2635 H Road
Grand Junction, CO 81506

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
440 Meetinghouse Road

Dear Mr. and Mrs. Roy:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/31/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Charles and Cheryl Roy
2. Street Address: 2635 H Road
City/Town: Grand Junction, CO Zip Code: 81506

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 440 Meetinghouse Road
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 440 Meetinghouse Road

Lab Sample ID: 480-43031-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.3	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	0.20	J	0.50	0.14	ug/L	1			524.2	Total/NA

Client Sample ID: 440 Meetinghouse Road

Lab Sample ID: 480-43031-16

Date Collected: 07/31/13 11:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 14:38	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 14:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 14:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 14:38	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 14:38	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 14:38	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 14:38	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 14:38	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 14:38	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 14:38	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 14:38	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 14:38	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 14:38	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 14:38	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 14:38	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 14:38	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 14:38	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 14:38	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 14:38	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 14:38	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 14:38	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 14:38	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 14:38	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 14:38	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 14:38	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 14:38	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 14:38	1
Acetone	1.3	J	2.5	0.54	ug/L			08/06/13 14:38	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 440 Meetinghouse Road

Lab Sample ID: 480-43031-16

Date Collected: 07/31/13 11:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			08/06/13 14:38	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 14:38	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 14:38	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 14:38	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 14:38	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 14:38	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 14:38	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 14:38	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 14:38	1
Chloroform	0.20	J	0.50	0.14	ug/L			08/06/13 14:38	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 14:38	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 14:38	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 14:38	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 14:38	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 14:38	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 14:38	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 14:38	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 14:38	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 14:38	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 14:38	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 14:38	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 14:38	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 14:38	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 14:38	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 14:38	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 14:38	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 14:38	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 14:38	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 14:38	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 14:38	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 14:38	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 14:38	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 14:38	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 14:38	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 14:38	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 14:38	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 14:38	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 14:38	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	101		80 - 120		08/06/13 14:38	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/06/13 14:38	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/05/13 19:22	08/07/13 06:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	102		70 - 130	08/05/13 19:22	08/07/13 06:07	1

TestAmerica Buffalo

August 15, 2013

William and Ethel Brown
2 Jonathan Way
Washington Crossing, PA 18977

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
235 Alston Avenue

Dear Mr. and Mrs. Brown:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/31/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: William and Ethel Brown
2. Street Address: 2 Jonathan Way
City/Town: Washington Crossing, PA Zip Code: 18977

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 235 Alston Avenue
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 235 Alston Avenue

Lab Sample ID: 480-43031-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.3	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloromethane	0.10	J	0.50	0.063	ug/L	1			524.2	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 235 Alston Avenue

Lab Sample ID: 480-43031-18

Date Collected: 07/31/13 13:05

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 15:29	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 15:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 15:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 15:29	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 15:29	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 15:29	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 15:29	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 15:29	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 15:29	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 15:29	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 15:29	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 15:29	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 15:29	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 15:29	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 15:29	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 15:29	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 15:29	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 15:29	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 15:29	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 15:29	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 15:29	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 15:29	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 15:29	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 15:29	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 15:29	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 15:29	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 15:29	1
Acetone	1.3	J	2.5	0.54	ug/L			08/06/13 15:29	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 15:29	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 15:29	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 15:29	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 15:29	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 15:29	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 15:29	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 15:29	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 15:29	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 15:29	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 15:29	1
Chloromethane	0.10	J	0.50	0.063	ug/L			08/06/13 15:29	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 15:29	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 15:29	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 15:29	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 15:29	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 15:29	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 15:29	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 15:29	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 15:29	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 15:29	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 15:29	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 235 Alston Avenue

Lab Sample ID: 480-43031-18

Date Collected: 07/31/13 13:05

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 15:29	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 15:29	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 15:29	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 15:29	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 15:29	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 15:29	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 15:29	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 15:29	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 15:29	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 15:29	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 15:29	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 15:29	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 15:29	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 15:29	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 15:29	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 15:29	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 15:29	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	100		80 - 120		08/06/13 15:29	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/06/13 15:29	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/05/13 19:22	08/07/13 06:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	85		70 - 130	08/05/13 19:22	08/07/13 06:32	1

August 15, 2013

John and Primm Ffrench
P.O. Box 323
Stockbridge, MA 01262

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
155 Meetinghouse Road

Dear Mr. and Mrs. Ffrench:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/31/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1,4-dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.46. The reported concentration is greater than the most restrictive 0.3 ug/L drinking water guideline but less than the 1.5 ug/L Bottled Water Action Level. This Action Level of 1.5 ug/L is based on Site-specific conditions evaluated by a qualified risk assessor who has determined that no significant risk exists below this concentration. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-Dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road

City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: John and Primm French

2. Street Address: P.O. Box 323

City/Town: Stockbridge Zip Code: 01262

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 155 Meetinghouse Road

City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____

(specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 155 Meetinghouse Road

Lab Sample ID: 480-43031-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	2.5	0.54	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.46		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 155 Meetinghouse Road

Lab Sample ID: 480-43031-20

Date Collected: 07/31/13 13:50

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 16:20	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 16:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 16:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 16:20	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 16:20	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 16:20	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 16:20	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 16:20	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 16:20	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 16:20	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 16:20	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 16:20	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 16:20	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 16:20	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 155 Meetinghouse Road

Lab Sample ID: 480-43031-20

Date Collected: 07/31/13 13:50

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 16:20	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 16:20	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 16:20	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 16:20	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 16:20	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 16:20	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 16:20	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 16:20	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 16:20	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 16:20	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 16:20	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 16:20	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 16:20	1
Acetone	1.3	J	2.5	0.54	ug/L			08/06/13 16:20	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 16:20	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 16:20	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 16:20	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 16:20	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 16:20	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 16:20	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 16:20	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 16:20	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 16:20	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 16:20	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 16:20	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 16:20	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 16:20	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 16:20	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 16:20	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 16:20	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 16:20	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 16:20	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 16:20	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 16:20	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 16:20	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 16:20	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 16:20	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 16:20	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 16:20	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 16:20	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 16:20	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 16:20	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 16:20	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 16:20	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 16:20	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 16:20	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 16:20	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 16:20	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 16:20	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 155 Meetinghouse Road

Lab Sample ID: 480-43031-20

Date Collected: 07/31/13 13:50

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 16:20	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 16:20	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 16:20	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/06/13 16:20	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/06/13 16:20	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.46		0.20	0.040	ug/L		08/05/13 19:22	08/07/13 06:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	103		70 - 130	08/05/13 19:22	08/07/13 06:53	1

August 15, 2013

Gary Fullem
2762 Fort Scott Drive
Arlington, VA 22202

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
30 Deepwood Drive

Dear Mr. Fullem:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/31/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

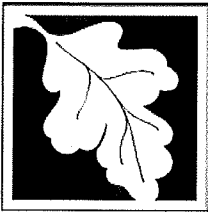
The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.040J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
Well Testing Analytical Data
Sample Results Key
Fact Sheet on 1,4-dioxane
Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Gary Fullem
2. Street Address: 2762 Fort Scott Drive
City/Town: Arlington, VA Zip Code: 22202

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 30 Deepwood Drive
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.
Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 30 Deepwood Drive

Lab Sample ID: 480-43031-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.57	J	2.5	0.54	ug/L	1			524.2	Total/NA
Chloroform	0.32	J	0.50	0.14	ug/L	1			524.2	Total/NA
1,4-Dioxane	0.040	J	0.20	0.040	ug/L	1			522 MOD	Total/NA

Client Sample ID: 30 Deepwood Drive

Lab Sample ID: 480-43031-22

Date Collected: 07/31/13 15:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 17:11	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 17:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 17:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 17:11	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 17:11	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 17:11	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 17:11	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 17:11	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 17:11	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 17:11	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 17:11	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 17:11	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 17:11	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 17:11	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 17:11	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 17:11	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 17:11	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 17:11	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 17:11	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 17:11	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 17:11	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 17:11	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 17:11	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 17:11	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 17:11	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 17:11	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 17:11	1
Acetone	0.57	J	2.5	0.54	ug/L			08/06/13 17:11	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 30 Deepwood Drive

Lab Sample ID: 480-43031-22

Date Collected: 07/31/13 15:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			08/06/13 17:11	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 17:11	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 17:11	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 17:11	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 17:11	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 17:11	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 17:11	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 17:11	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 17:11	1
Chloroform	0.32	J	0.50	0.14	ug/L			08/06/13 17:11	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 17:11	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 17:11	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 17:11	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 17:11	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 17:11	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 17:11	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 17:11	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 17:11	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 17:11	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 17:11	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 17:11	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 17:11	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 17:11	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 17:11	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 17:11	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 17:11	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 17:11	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 17:11	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 17:11	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 17:11	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 17:11	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 17:11	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 17:11	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 17:11	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 17:11	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 17:11	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 17:11	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 17:11	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		08/06/13 17:11	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/06/13 17:11	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.040	J	0.20	0.040	ug/L		08/05/13 19:22	08/07/13 07:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	97		70 - 130	08/05/13 19:22	08/07/13 07:18	1

TestAmerica Buffalo

August 15, 2013

Stephen and Lisa Colley
325 Schoolhouse Road
Eastham, MA 02642

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
325 Schoolhouse Road

Dear Mr. and Mrs. Colley:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 7/31/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1,4-dioxane was detected in the drinking water sample obtained from your well at a concentration of 9.4. The reported concentration is greater than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. This Action Level of 1.5 ug/L is based on Site-specific conditions evaluated by a qualified risk assessor who has determined that a potential significant risk associated with ingestion may exist at this concentration. The use of bottled water, however, will eliminate this exposure pathway. Given this information, and as a precautionary measure, the Town has already begun providing you with bottled water at the Town's expense. Because 1,4-dioxane does not evaporate easily or absorb through the skin readily, you may continue to use the water for other household activities, including bathing, showering, and washing dishes. A fact sheet with more information about 1,4-dioxane is attached. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data.

Potential Additional Sampling

Due to the presence of 1,4-dioxane in your private drinking water well, the Town would like to re-sample your private well on a monthly basis to evaluate the concentrations of 1,4-dioxane. The Town will contact you to determine a mutually agreeable schedule to continue monitoring your private well. In the meantime, please continue to use bottled water for drinking and cooking.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road

City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Stephen and Lisa Colley

2. Street Address: 325 Schoolhouse Road

City/Town: Eastham Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 325 Schoolhouse Road

City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____

(specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 325 Schoolhouse Road (RES-30) Raw Water

Lab Sample ID: 480-43031-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1-Dichloroethane	0.35	J	0.50	0.074	ug/L	1			524.2	Total/NA
Acetone	1.3	J	2.5	0.54	ug/L	1			524.2	Total/NA
Benzene	0.59		0.50	0.13	ug/L	1			524.2	Total/NA
Chloroethane	0.49	J	0.50	0.070	ug/L	1			524.2	Total/NA
Chloromethane	0.11	J	0.50	0.063	ug/L	1			524.2	Total/NA
cis-1,2-Dichloroethene	2.1		0.50	0.12	ug/L	1			524.2	Total/NA
Methyl tert-butyl ether	1.6		0.50	0.12	ug/L	1			524.2	Total/NA
t-Butanol	8.3	J	10	2.5	ug/L	1			524.2	Total/NA
Vinyl chloride	0.22	J	0.50	0.059	ug/L	1			524.2	Total/NA
1,4-Dioxane	9.4		0.40	0.080	ug/L	2			522 MOD	Total/NA

Client Sample ID: 325 Schoolhouse Road (RES-30)

Lab Sample ID: 480-43031-26

Intermediate

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloromethane	0.084	J	0.50	0.063	ug/L	1			524.2	Total/NA

Client Sample ID: 325 Schoolhouse Road (RES-30) Finish

Lab Sample ID: 480-43031-28

Water

No Detections.

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 325 Schoolhouse Road (RES-30) Raw Water

Lab Sample ID: 480-43031-24

Date Collected: 07/31/13 14:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 18:01	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 18:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 18:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 18:01	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 18:01	1
1,1-Dichloroethane	0.35	J	0.50	0.074	ug/L			08/06/13 18:01	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 18:01	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 18:01	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 18:01	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 18:01	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 18:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 18:01	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 18:01	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 18:01	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 18:01	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 18:01	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 18:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 18:01	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 18:01	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 18:01	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 18:01	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 18:01	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 18:01	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 18:01	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 18:01	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 18:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 18:01	1
Acetone	1.3	J	2.5	0.54	ug/L			08/06/13 18:01	1
Benzene	0.59		0.50	0.13	ug/L			08/06/13 18:01	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 18:01	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 18:01	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 18:01	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 18:01	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 18:01	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 18:01	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 18:01	1
Chloroethane	0.49	J	0.50	0.070	ug/L			08/06/13 18:01	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 18:01	1
Chloromethane	0.11	J	0.50	0.063	ug/L			08/06/13 18:01	1
cis-1,2-Dichloroethene	2.1		0.50	0.12	ug/L			08/06/13 18:01	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 18:01	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 18:01	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 18:01	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 18:01	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 18:01	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 18:01	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 18:01	1
Methyl tert-butyl ether	1.6		0.50	0.12	ug/L			08/06/13 18:01	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 18:01	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 325 Schoolhouse Road (RES-30) Raw Water

Lab Sample ID: 480-43031-24

Date Collected: 07/31/13 14:55

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 18:01	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 18:01	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 18:01	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 18:01	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 18:01	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 18:01	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 18:01	1
t-Butanol	8.3	J	10	2.5	ug/L			08/06/13 18:01	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 18:01	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 18:01	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 18:01	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 18:01	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 18:01	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 18:01	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 18:01	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 18:01	1
Vinyl chloride	0.22	J	0.50	0.059	ug/L			08/06/13 18:01	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/06/13 18:01	1
4-Bromofluorobenzene (Surr)	100		80 - 120		08/06/13 18:01	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	9.4		0.40	0.080	ug/L		08/05/13 19:22	08/07/13 17:24	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	77		70 - 130	08/05/13 19:22	08/07/13 17:24	2

Client Sample ID: 325 Schoolhouse Road (RES-30)

Lab Sample ID: 480-43031-26

Intermediate

Date Collected: 07/31/13 15:05

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 18:51	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 18:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 18:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 18:51	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 18:51	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 18:51	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 18:51	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 18:51	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 18:51	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 18:51	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 18:51	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 18:51	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 18:51	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 325 Schoolhouse Road (RES-30)

Lab Sample ID: 480-43031-26

Intermediate

Date Collected: 07/31/13 15:05

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 18:51	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 18:51	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 18:51	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 18:51	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 18:51	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 18:51	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 18:51	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 18:51	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 18:51	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 18:51	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 18:51	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 18:51	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 18:51	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 18:51	1
Acetone	ND		2.5	0.54	ug/L			08/06/13 18:51	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 18:51	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 18:51	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 18:51	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 18:51	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 18:51	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 18:51	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 18:51	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 18:51	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 18:51	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 18:51	1
Chloromethane	0.084 J		0.50	0.063	ug/L			08/06/13 18:51	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 18:51	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 18:51	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 18:51	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 18:51	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 18:51	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 18:51	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 18:51	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 18:51	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 18:51	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 18:51	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 18:51	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 18:51	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 18:51	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 18:51	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 18:51	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 18:51	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 18:51	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 18:51	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 18:51	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 18:51	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 18:51	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 18:51	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 325 Schoolhouse Road (RES-30)

Lab Sample ID: 480-43031-26

Intermediate

Date Collected: 07/31/13 15:05

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 18:51	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 18:51	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 18:51	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 18:51	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 18:51	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		08/06/13 18:51	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/06/13 18:51	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/05/13 19:22	08/07/13 08:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	100		70 - 130	08/05/13 19:22	08/07/13 08:27	1

Client Sample ID: 325 Schoolhouse Road (RES-30) Finish

Lab Sample ID: 480-43031-28

Water

Date Collected: 07/31/13 15:15

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/06/13 19:42	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/06/13 19:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/06/13 19:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/06/13 19:42	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/06/13 19:42	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/06/13 19:42	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/06/13 19:42	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/06/13 19:42	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/06/13 19:42	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/06/13 19:42	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 19:42	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/06/13 19:42	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/06/13 19:42	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/06/13 19:42	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/06/13 19:42	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/06/13 19:42	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/06/13 19:42	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/06/13 19:42	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 19:42	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/06/13 19:42	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/06/13 19:42	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/06/13 19:42	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/06/13 19:42	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 19:42	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 325 Schoolhouse Road (RES-30) Finish

Lab Sample ID: 480-43031-28

Water

Date Collected: 07/31/13 15:15

Matrix: Water

Date Received: 08/02/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/06/13 19:42	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/06/13 19:42	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/06/13 19:42	1
Acetone	ND		2.5	0.54	ug/L			08/06/13 19:42	1
Benzene	ND		0.50	0.13	ug/L			08/06/13 19:42	1
Bromobenzene	ND		0.50	0.13	ug/L			08/06/13 19:42	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/06/13 19:42	1
Bromoform	ND		0.50	0.13	ug/L			08/06/13 19:42	1
Bromomethane	ND		0.50	0.051	ug/L			08/06/13 19:42	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/06/13 19:42	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/06/13 19:42	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/06/13 19:42	1
Chloroethane	ND		0.50	0.070	ug/L			08/06/13 19:42	1
Chloroform	ND		0.50	0.14	ug/L			08/06/13 19:42	1
Chloromethane	ND		0.50	0.063	ug/L			08/06/13 19:42	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/06/13 19:42	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/06/13 19:42	1
Dibromomethane	ND		0.50	0.17	ug/L			08/06/13 19:42	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/06/13 19:42	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/06/13 19:42	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/06/13 19:42	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/06/13 19:42	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/06/13 19:42	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/06/13 19:42	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/06/13 19:42	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/06/13 19:42	1
Naphthalene	ND		0.50	0.060	ug/L			08/06/13 19:42	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/06/13 19:42	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/06/13 19:42	1
o-Xylene	ND		0.50	0.044	ug/L			08/06/13 19:42	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/06/13 19:42	1
Styrene	ND		0.50	0.044	ug/L			08/06/13 19:42	1
t-Butanol	ND		10	2.5	ug/L			08/06/13 19:42	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/06/13 19:42	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/06/13 19:42	1
Toluene	ND		0.50	0.10	ug/L			08/06/13 19:42	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/06/13 19:42	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/06/13 19:42	1
Trichloroethene	ND		0.50	0.060	ug/L			08/06/13 19:42	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			08/06/13 19:42	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/06/13 19:42	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/06/13 19:42	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/06/13 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120					08/06/13 19:42	1
4-Bromofluorobenzene (Surr)	102		80 - 120					08/06/13 19:42	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43031-1

Client Sample ID: 325 Schoolhouse Road (RES-30) Finish

Lab Sample ID: 480-43031-28

Water

Date Collected: 07/31/13 15:15

Matrix: Water

Date Received: 08/02/13 02:30

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/05/13 19:22	08/07/13 08:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	91		70 - 130				08/05/13 19:22	08/07/13 08:48	1

August 16, 2013

Edward and Nina Goldman
c/o Erik Anderson
95 Highcrest Lane
Mt Kisco, NY 10549

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
180 Glacier Hills Road

Dear Mr. and Mrs. Goldman:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 8/2/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Edward and Nina Goldman c/o Erik Anderson
2. Street Address: 95 Highcrest Lane
City/Town: Mt Kisco, NY Zip Code: 10549

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 180 Glacier Hills Road
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.
Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 180 Glacier Hills Road

Lab Sample ID: 480-43204-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.86	J	2.5	0.54	ug/L	1			524.2	Total/NA



Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 180 Glacier Hills Road

Lab Sample ID: 480-43204-1

Date Collected: 08/02/13 09:45

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/07/13 13:13	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/07/13 13:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/07/13 13:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/07/13 13:13	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/07/13 13:13	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/07/13 13:13	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/07/13 13:13	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/07/13 13:13	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/07/13 13:13	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/07/13 13:13	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 13:13	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/07/13 13:13	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/07/13 13:13	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/07/13 13:13	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/07/13 13:13	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/07/13 13:13	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/07/13 13:13	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/07/13 13:13	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 13:13	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/07/13 13:13	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 13:13	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/07/13 13:13	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/07/13 13:13	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 13:13	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 13:13	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/07/13 13:13	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/07/13 13:13	1
Acetone	0.86	J	2.5	0.54	ug/L			08/07/13 13:13	1
Benzene	ND		0.50	0.13	ug/L			08/07/13 13:13	1
Bromobenzene	ND		0.50	0.13	ug/L			08/07/13 13:13	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/07/13 13:13	1
Bromoform	ND		0.50	0.13	ug/L			08/07/13 13:13	1
Bromomethane	ND		0.50	0.051	ug/L			08/07/13 13:13	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/07/13 13:13	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/07/13 13:13	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/07/13 13:13	1
Chloroethane	ND		0.50	0.070	ug/L			08/07/13 13:13	1
Chloroform	ND		0.50	0.14	ug/L			08/07/13 13:13	1
Chloromethane	ND		0.50	0.063	ug/L			08/07/13 13:13	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/07/13 13:13	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/07/13 13:13	1
Dibromomethane	ND		0.50	0.17	ug/L			08/07/13 13:13	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/07/13 13:13	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/07/13 13:13	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/07/13 13:13	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/07/13 13:13	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/07/13 13:13	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/07/13 13:13	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/07/13 13:13	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 180 Glacier Hills Road

Lab Sample ID: 480-43204-1

Date Collected: 08/02/13 09:45

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/07/13 13:13	1
Naphthalene	ND		0.50	0.060	ug/L			08/07/13 13:13	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/07/13 13:13	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/07/13 13:13	1
o-Xylene	ND		0.50	0.044	ug/L			08/07/13 13:13	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/07/13 13:13	1
Styrene	ND		0.50	0.044	ug/L			08/07/13 13:13	1
t-Butanol	ND		10	2.5	ug/L			08/07/13 13:13	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/07/13 13:13	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/07/13 13:13	1
Toluene	ND		0.50	0.10	ug/L			08/07/13 13:13	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/07/13 13:13	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/07/13 13:13	1
Trichloroethene	ND		0.50	0.060	ug/L			08/07/13 13:13	1
Trichlorofluoromethane	ND *		0.50	0.044	ug/L			08/07/13 13:13	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/07/13 13:13	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/07/13 13:13	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/07/13 13:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120					08/07/13 13:13	1
4-Bromofluorobenzene (Surr)	99		80 - 120					08/07/13 13:13	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/07/13 17:39	08/08/13 16:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	78		70 - 130				08/07/13 17:39	08/08/13 16:55	1

August 16, 2013

David Alexander
375 Meetinghouse Road
Eastham, MA 02642

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
375 Meetinghouse Road

Dear Mr. Alexander:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 8/2/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.19J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
Well Testing Analytical Data
Sample Results Key
Fact Sheet on 1,4-dioxane
Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: David Alexander
2. Street Address: 375 Meetinghouse Road
City/Town: Eastham Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 375 Meetinghouse Road
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 375 Meetinghouse Road

Lab Sample ID: 480-43204-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.78	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.49	J	0.50	0.14	ug/L	1		524.2	Total/NA
Chloromethane	0.073	J	0.50	0.063	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.35	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.19	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 375 Meetinghouse Road

Lab Sample ID: 480-43204-3

Date Collected: 08/02/13 10:45

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/07/13 14:04	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/07/13 14:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/07/13 14:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/07/13 14:04	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/07/13 14:04	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/07/13 14:04	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/07/13 14:04	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/07/13 14:04	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/07/13 14:04	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/07/13 14:04	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 14:04	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/07/13 14:04	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/07/13 14:04	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/07/13 14:04	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 375 Meetinghouse Road

Lab Sample ID: 480-43204-3

Date Collected: 08/02/13 10:45

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/07/13 14:04	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/07/13 14:04	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/07/13 14:04	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/07/13 14:04	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 14:04	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/07/13 14:04	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 14:04	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/07/13 14:04	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/07/13 14:04	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 14:04	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 14:04	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/07/13 14:04	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/07/13 14:04	1
Acetone	0.78	J	2.5	0.54	ug/L			08/07/13 14:04	1
Benzene	ND		0.50	0.13	ug/L			08/07/13 14:04	1
Bromobenzene	ND		0.50	0.13	ug/L			08/07/13 14:04	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/07/13 14:04	1
Bromoform	ND		0.50	0.13	ug/L			08/07/13 14:04	1
Bromomethane	ND		0.50	0.051	ug/L			08/07/13 14:04	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/07/13 14:04	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/07/13 14:04	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/07/13 14:04	1
Chloroethane	ND		0.50	0.070	ug/L			08/07/13 14:04	1
Chloroform	0.49	J	0.50	0.14	ug/L			08/07/13 14:04	1
Chloromethane	0.073	J	0.50	0.063	ug/L			08/07/13 14:04	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/07/13 14:04	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/07/13 14:04	1
Dibromomethane	ND		0.50	0.17	ug/L			08/07/13 14:04	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/07/13 14:04	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/07/13 14:04	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/07/13 14:04	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/07/13 14:04	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/07/13 14:04	1
Methyl tert-butyl ether	0.36	J	0.50	0.12	ug/L			08/07/13 14:04	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/07/13 14:04	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/07/13 14:04	1
Naphthalene	ND		0.50	0.060	ug/L			08/07/13 14:04	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/07/13 14:04	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/07/13 14:04	1
o-Xylene	ND		0.50	0.044	ug/L			08/07/13 14:04	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/07/13 14:04	1
Styrene	ND		0.50	0.044	ug/L			08/07/13 14:04	1
t-Butanol	ND		10	2.5	ug/L			08/07/13 14:04	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/07/13 14:04	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/07/13 14:04	1
Toluene	ND		0.50	0.10	ug/L			08/07/13 14:04	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/07/13 14:04	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/07/13 14:04	1
Trichloroethene	ND		0.50	0.060	ug/L			08/07/13 14:04	1

6

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 375 Meetinghouse Road

Lab Sample ID: 480-43204-3

Date Collected: 08/02/13 10:45

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			08/07/13 14:04	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/07/13 14:04	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/07/13 14:04	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/07/13 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		08/07/13 14:04	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/07/13 14:04	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.19	J	0.20	0.040	ug/L		08/07/13 17:39	08/08/13 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	82		70 - 130	08/07/13 17:39	08/08/13 17:17	1

August 16, 2013

Gail Bernstein
2017 East Third Street
Tucson, AZ 85719

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
55 Northwood Road

Dear Ms. Bernstein:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 8/2/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.15J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4 24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Gail Bernstein
2. Street Address: 2017 East Third Street
City/Town: Tucson, AZ Zip Code: 85719

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 55 Northwood Road
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.
Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett
Street Address: P.O. Box 1743/1573 Main Street
City/Town: Brewster, MA Zip Code: 02631
Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample ID: 55 Northwood Drive

Lab Sample ID: 480-43204-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.56		0.50	0.14	ug/L	1		524.2	Total/NA
Chloromethane	0.066	J	0.50	0.063	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.15	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 55 Northwood Drive

Lab Sample ID: 480-43204-5

Date Collected: 08/02/13 11:55

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/07/13 14:55	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/07/13 14:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/07/13 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/07/13 14:55	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/07/13 14:55	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/07/13 14:55	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/07/13 14:55	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/07/13 14:55	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/07/13 14:55	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/07/13 14:55	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 14:55	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/07/13 14:55	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/07/13 14:55	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/07/13 14:55	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/07/13 14:55	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/07/13 14:55	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/07/13 14:55	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/07/13 14:55	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 14:55	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/07/13 14:55	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 14:55	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/07/13 14:55	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/07/13 14:55	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 14:55	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 14:55	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/07/13 14:55	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/07/13 14:55	1
Acetone	1.2	J	2.5	0.54	ug/L			08/07/13 14:55	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 55 Northwood Drive

Lab Sample ID: 480-43204-5

Date Collected: 08/02/13 11:55

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			08/07/13 14:55	1
Bromobenzene	ND		0.50	0.13	ug/L			08/07/13 14:55	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/07/13 14:55	1
Bromoform	ND		0.50	0.13	ug/L			08/07/13 14:55	1
Bromomethane	ND		0.50	0.051	ug/L			08/07/13 14:55	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/07/13 14:55	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/07/13 14:55	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/07/13 14:55	1
Chloroethane	ND		0.50	0.070	ug/L			08/07/13 14:55	1
Chloroform	0.66		0.50	0.14	ug/L			08/07/13 14:55	1
Chloromethane	0.066	J	0.50	0.063	ug/L			08/07/13 14:55	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/07/13 14:55	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/07/13 14:55	1
Dibromomethane	ND		0.50	0.17	ug/L			08/07/13 14:55	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/07/13 14:55	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/07/13 14:55	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/07/13 14:55	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/07/13 14:55	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/07/13 14:55	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/07/13 14:55	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/07/13 14:55	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/07/13 14:55	1
Naphthalene	ND		0.50	0.060	ug/L			08/07/13 14:55	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/07/13 14:55	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/07/13 14:55	1
o-Xylene	ND		0.50	0.044	ug/L			08/07/13 14:55	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/07/13 14:55	1
Styrene	ND		0.50	0.044	ug/L			08/07/13 14:55	1
t-Butanol	ND		10	2.5	ug/L			08/07/13 14:55	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/07/13 14:55	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/07/13 14:55	1
Toluene	ND		0.50	0.10	ug/L			08/07/13 14:55	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/07/13 14:55	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/07/13 14:55	1
Trichloroethene	ND		0.50	0.060	ug/L			08/07/13 14:55	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			08/07/13 14:55	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/07/13 14:55	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/07/13 14:55	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/07/13 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/07/13 14:55	1
4-Bromofluorobenzene (Surr)	102		80 - 120		08/07/13 14:55	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.15	J	0.20	0.040	ug/L		08/07/13 17:39	08/08/13 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	87		70 - 130	08/07/13 17:39	08/08/13 17:39	1

TestAmerica Buffalo

August 16, 2013

Mary Maloney
320 Forest Park Avenue
Springfield, MA 01108

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
2 Eldia Way

Dear Ms. Maloney:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 8/2/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

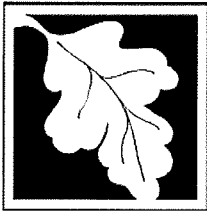
Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road

City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Mary Maloney

2. Street Address: 320 Forest Park Avenue

City/Town: Springfield Zip Code: 01108

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 2 Eldia Way

City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____

(specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

213

Client Sample ID: 2 Eldia Way

Lab Sample ID: 480-43204-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.67	J	2.5	0.54	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.40	J	0.50	0.12	ug/L	1		524.2	Total/NA

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 2 Eldia Way

Lab Sample ID: 480-43204-7

Date Collected: 08/02/13 12:45

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/07/13 15:46	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/07/13 15:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/07/13 15:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/07/13 15:46	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/07/13 15:46	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/07/13 15:46	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/07/13 15:46	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/07/13 15:46	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/07/13 15:46	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/07/13 15:46	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 15:46	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/07/13 15:46	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/07/13 15:46	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/07/13 15:46	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/07/13 15:46	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/07/13 15:46	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/07/13 15:46	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/07/13 15:46	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 15:46	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/07/13 15:46	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 15:46	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/07/13 15:46	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/07/13 15:46	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 15:46	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 15:46	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/07/13 15:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/07/13 15:46	1
Acetone	0.67	J	2.5	0.54	ug/L			08/07/13 15:46	1
Benzene	ND		0.50	0.13	ug/L			08/07/13 15:46	1
Bromobenzene	ND		0.50	0.13	ug/L			08/07/13 15:46	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/07/13 15:46	1
Bromoform	ND		0.50	0.13	ug/L			08/07/13 15:46	1
Bromomethane	ND		0.50	0.051	ug/L			08/07/13 15:46	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/07/13 15:46	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/07/13 15:46	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/07/13 15:46	1
Chloroethane	ND		0.50	0.070	ug/L			08/07/13 15:46	1
Chloroform	ND		0.50	0.14	ug/L			08/07/13 15:46	1
Chloromethane	ND		0.50	0.063	ug/L			08/07/13 15:46	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/07/13 15:46	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/07/13 15:46	1
Dibromomethane	ND		0.50	0.17	ug/L			08/07/13 15:46	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/07/13 15:46	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/07/13 15:46	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/07/13 15:46	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/07/13 15:46	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/07/13 15:46	1
Methyl tert-butyl ether	0.40	J	0.50	0.12	ug/L			08/07/13 15:46	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/07/13 15:46	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 2 Eldia Way

Lab Sample ID: 480-43204-7

Date Collected: 08/02/13 12:45

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/07/13 15:46	1
Naphthalene	ND		0.50	0.060	ug/L			08/07/13 15:46	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/07/13 15:46	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/07/13 15:46	1
o-Xylene	ND		0.50	0.044	ug/L			08/07/13 15:46	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/07/13 15:46	1
Styrene	ND		0.50	0.044	ug/L			08/07/13 15:46	1
t-Butanol	ND		10	2.5	ug/L			08/07/13 15:46	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/07/13 15:46	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/07/13 15:46	1
Toluene	ND		0.50	0.10	ug/L			08/07/13 15:46	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/07/13 15:46	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/07/13 15:46	1
Trichloroethene	ND		0.50	0.060	ug/L			08/07/13 15:46	1
Trichlorofluoromethane	ND *		0.50	0.044	ug/L			08/07/13 15:46	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/07/13 15:46	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/07/13 15:46	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/07/13 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		08/07/13 15:46	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/07/13 15:46	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/07/13 17:39	08/08/13 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	98		70 - 130	08/07/13 17:39	08/08/13 18:49	1

August 16, 2013

Brian Soucy
65 Fiske Street
Waltham, MA 02451

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
350 Schoolhouse Road

Dear Mr. Soucy:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 8/2/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
 Well Testing Analytical Data
 Sample Results Key
 Fact Sheet on 1,4-dioxane
 Tabulated Summary of VOC Compounds Tested and Regulatory Standards



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road

City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Brian Soucy

2. Street Address: 65 Fiske Street

City/Town: Waltham Zip Code: 02451

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 350 Schoolhouse Road

City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____

(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collected water sample from private well.

E. Contact information related to the party providing this notice:

Contact Name: David Bennett

Street Address: P.O. Box 1743/1573 Main Street

City/Town: Brewster, MA Zip Code: 02631

Telephone: (508) 896-1706 Email: dbennett@bennett-ea.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

2020

Client Sample ID: 350 Schoolhouse Road Lab Sample ID: 480-43204-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	0.67	J	2.5	0.54	ug/L	1			524.2	Total/NA

Client Sample ID: 350 Schoolhouse Road

Lab Sample ID: 480-43204-9

Date Collected: 08/02/13 13:30

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			08/07/13 16:37	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			08/07/13 16:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/07/13 16:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			08/07/13 16:37	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			08/07/13 16:37	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			08/07/13 16:37	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			08/07/13 16:37	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			08/07/13 16:37	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			08/07/13 16:37	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			08/07/13 16:37	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 16:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			08/07/13 16:37	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			08/07/13 16:37	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			08/07/13 16:37	1

TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 350 Schoolhouse Road

Lab Sample ID: 480-43204-9

Date Collected: 08/02/13 13:30

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			08/07/13 16:37	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			08/07/13 16:37	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			08/07/13 16:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			08/07/13 16:37	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 16:37	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			08/07/13 16:37	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			08/07/13 16:37	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			08/07/13 16:37	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			08/07/13 16:37	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 16:37	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			08/07/13 16:37	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			08/07/13 16:37	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			08/07/13 16:37	1
Acetone	0.67	J	2.5	0.54	ug/L			08/07/13 16:37	1
Benzene	ND		0.50	0.13	ug/L			08/07/13 16:37	1
Bromobenzene	ND		0.50	0.13	ug/L			08/07/13 16:37	1
Bromochloromethane	ND		0.50	0.11	ug/L			08/07/13 16:37	1
Bromoform	ND		0.50	0.13	ug/L			08/07/13 16:37	1
Bromomethane	ND		0.50	0.051	ug/L			08/07/13 16:37	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			08/07/13 16:37	1
Chlorobenzene	ND		0.50	0.12	ug/L			08/07/13 16:37	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			08/07/13 16:37	1
Chloroethane	ND		0.50	0.070	ug/L			08/07/13 16:37	1
Chloroform	ND		0.50	0.14	ug/L			08/07/13 16:37	1
Chloromethane	ND		0.50	0.063	ug/L			08/07/13 16:37	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			08/07/13 16:37	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/07/13 16:37	1
Dibromomethane	ND		0.50	0.17	ug/L			08/07/13 16:37	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			08/07/13 16:37	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			08/07/13 16:37	1
Ethylbenzene	ND		0.50	0.11	ug/L			08/07/13 16:37	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			08/07/13 16:37	1
Isopropylbenzene	ND		0.50	0.053	ug/L			08/07/13 16:37	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			08/07/13 16:37	1
Methylene Chloride	ND		0.50	0.25	ug/L			08/07/13 16:37	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			08/07/13 16:37	1
Naphthalene	ND		0.50	0.060	ug/L			08/07/13 16:37	1
n-Butylbenzene	ND		0.50	0.081	ug/L			08/07/13 16:37	1
N-Propylbenzene	ND		0.50	0.057	ug/L			08/07/13 16:37	1
o-Xylene	ND		0.50	0.044	ug/L			08/07/13 16:37	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			08/07/13 16:37	1
Styrene	ND		0.50	0.044	ug/L			08/07/13 16:37	1
t-Butanol	ND		10	2.5	ug/L			08/07/13 16:37	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			08/07/13 16:37	1
Tetrachloroethene	ND		0.50	0.067	ug/L			08/07/13 16:37	1
Toluene	ND		0.50	0.10	ug/L			08/07/13 16:37	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			08/07/13 16:37	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/07/13 16:37	1
Trichloroethene	ND		0.50	0.060	ug/L			08/07/13 16:37	1

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TestAmerica Buffalo

Client Sample Results

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-43204-1

Client Sample ID: 350 Schoolhouse Road

Lab Sample ID: 480-43204-9

Date Collected: 08/02/13 13:30

Matrix: Water

Date Received: 08/06/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			08/07/13 16:37	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			08/07/13 16:37	1
Vinyl chloride	ND		0.50	0.059	ug/L			08/07/13 16:37	1
Xylenes, Total	ND		1.0	0.20	ug/L			08/07/13 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		80 - 120		08/07/13 16:37	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/07/13 16:37	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Method 811-MB-17: Dioxane (Surrogate)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		08/07/13 17:39	08/08/13 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	85		70 - 130				08/07/13 17:39	08/08/13 19:11	1

September 17, 2013

James E. Kenneway
80 Alston Avenue
Eastham, MA 02642

**Subject: Environmental Sampling Results
80 Alston Avenue**

Dear Mr. Kenneway;

On behalf of the Town of Eastham, this letter transmits to you the results of water samples collected from your home on August 27, 2013. The samples were submitted for laboratory analysis of volatile organic compounds (VOCs) and 1,4 dioxane. Methyl tert butyl ether, also known as MTBE, was found at a concentration of 1.5 micrograms per liter ($\mu\text{g/L}$), which is well below the Massachusetts drinking water standard of 70 $\mu\text{g/L}$. An estimated concentration (0.057 $\mu\text{g/L}$) of 1,4 dioxane was also detected in the sample. This concentration is well below the (proposed) Massachusetts drinking water standard of 0.3 $\mu\text{g/L}$. Pages from the laboratory report with these results are attached for your review, along with MassDEP-required form BWSC-123, a list of drinking water standards, and a sample laboratory report diagram.

Please call us at 508-226-1800 if you have any questions.

Sincerely,
Environmental Strategies & Management, Inc.



Douglas Heely, PG, LSP
Principal Geologist

Copy: Ms. Jane Crowley, Town of Eastham Board of Health



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, 255 Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: James E. Kenneway
2. Street Address: 80 Alston Avenue
City/Town: Eastham Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 80 Alston Avenue
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Private well drinking water.

E. Contact information related to the party providing this notice:

Contact Name: Douglas Heely

Street Address: 273 West Main Street

City/Town: Norton Zip Code: 02766

Telephone: (508) 226-1800 Email: dheely@esm-inc.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the “disposal site”.)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Alston_080_Avenue

Lab Sample ID: 480-44857-1

Date Collected: 08/27/13 14:30

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 11:46	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 11:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 11:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 11:46	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 11:46	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			09/03/13 11:46	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 11:46	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 11:46	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 11:46	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 11:46	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 11:46	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 11:46	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 11:46	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 11:46	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 11:46	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 11:46	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 11:46	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 11:46	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 11:46	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 11:46	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 11:46	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 11:46	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 11:46	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 11:46	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 11:46	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 11:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 11:46	1
Acetone	ND		2.5	0.54	ug/L			09/03/13 11:46	1
Benzene	ND		0.50	0.13	ug/L			09/03/13 11:46	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 11:46	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 11:46	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 11:46	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 11:46	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 11:46	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 11:46	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 11:46	1
Chloroethane	ND		0.50	0.070	ug/L			09/03/13 11:46	1
Chloroform	ND		0.50	0.14	ug/L			09/03/13 11:46	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 11:46	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			09/03/13 11:46	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 11:46	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 11:46	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 11:46	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 11:46	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 11:46	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 11:46	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 11:46	1
Methyl tert-butyl ether	1.5		0.50	0.12	ug/L			09/03/13 11:46	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 11:46	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Alston_080_Avenue

Lab Sample ID: 480-44857-1

Date Collected: 08/27/13 14:30

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 11:46	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 11:46	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 11:46	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 11:46	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 11:46	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 11:46	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 11:46	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 11:46	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 11:46	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 11:46	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 11:46	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 11:46	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 11:46	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 11:46	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 11:46	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 11:46	1
Vinyl chloride	ND		0.50	0.059	ug/L			09/03/13 11:46	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 11:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		80 - 120		09/03/13 11:46	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/03/13 11:46	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.057	J	0.20	0.040	ug/L		09/09/13 19:29	09/10/13 10:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	90		70 - 130	09/09/13 19:29	09/10/13 10:34	1

STANDARDS
(in ug/L)

Volatile Organic Compounds	ORSG	MMCL	GW1	Volatile Organic Compounds	ORSG	MMCL	GW1
1,1,1,2-Tetrachloroethane	NA	NA	5	Styrene	NA	100	100
1,1,1-Trichloroethane	NA	200	200	t-Butanol	120	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	2	tert-Butylbenzene	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	210000	NA	NA	Tetrachloroethene	NA	5	5
1,1,2-Trichloroethane	NA	5	5	Toluene	NA	1000	1000
1,1-Dichloroethane	70	NA	70	trans-1,2-Dichloroethene	NA	100	100
1,1-Dichloroethene	NA	7	7	trans-1,3-Dichloropropene	NA	NA	NA
1,1-Dichloropropene	NA	NA	NA	Trichloroethene	NA	5	5
1,2,3-Trichlorobenzene	NA	NA	NA	Trichlorofluoromethane	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA	Trihalomethanes, Total	NA	80	NA
1,2,4-Trichlorobenzene	NA	70	70	Vinyl chloride	NA	2	2
1,2,4-Trimethylbenzene	NA	NA	NA	Xylenes, Total	NA	10000	10000
1,2-Dibromo-3-Chloropropane	NA	0.2	NA	1,4-Dioxane	0.3	NA	0.3*
1,2-Dibromoethane	NA	0.02	0.02	Ethylene Dibromide	NA	0.02	0.02
1,2-Dichlorobenzene	NA	600	600				
1,2-Dichloroethane	NA	5	5				
1,2-Dichloropropane	NA	5	5				
1,3,5-Trimethylbenzene	NA	NA	NA				
1,3-Dichlorobenzene	NA	NA	40				
1,3-Dichloropropane	NA	NA	NA				
1,4-Dichlorobenzene	NA	5	5				
2,2-Dichloropropane	NA	NA	NA				
2-Butanone (MEK)	4000	NA	4000				
2-Chlorotoluene	NA	NA	NA				
4-Chlorotoluene	NA	NA	NA				
4-Isopropyltoluene	NA	NA	NA				
4-Methyl-2-pentanone (MIBK)	350	NA	350				
Acetone	6300	NA	6300				
Benzene	NA	5	5				
Bromobenzene	NA	NA	NA				
Bromochloromethane	NA	NA	NA				
Bromoform	NA	NA	4				
Bromomethane	10	NA	10				
Carbon tetrachloride	NA	5	5				
Chlorobenzene	NA	100	100				
Chlorodibromomethane	NA	NA	2				
Chloroethane	NA	NA	NA				
Chloroform	70	NA	70				
Chloromethane	NA	NA	NA				
cis-1,2-Dichloroethene	NA	70	70				
cis-1,3-Dichloropropene	NA	NA	NA				
Dibromomethane	NA	NA	NA				
Dichlorobromomethane	NA	NA	3				
Dichlorodifluoromethane	1400	NA	NA				
Ethylbenzene	NA	700	700				
Hexachlorobutadiene	NA	NA	0.6				
Isopropylbenzene	NA	NA	NA				
Methyl tert-butyl ether	70	NA	70				
Methylene Chloride	NA	5	5				
m-Xylene & p-Xylene	NA	NA	10000				
Naphthalene	140	NA	140				
n-Butylbenzene	NA	NA	NA				
N-Propylbenzene	NA	NA	NA				
o-Xylene	NA	NA	10000				
sec-Butylbenzene	NA	NA	NA				

ORSG - Office of Research and Standards Guidelines

MMCL - Massachusetts Maximum Contaminant Levels

GW-1 MCP Groundwater Standards that apply to groundwater that is a current or future source of drinking water



Client Sample Results (EXAMPLE)

Date sample collected
& date received at lab

Your Address Here

Client Sample ID:

Date Collected: 02/11/13 10:35

Date Received: 02/13/13 01:10

Sample ID # generated
by the Lab

Lab Sample ID: 480-32873-4
Matrix: Water

RL – Reporting Limit – the lowest
concentration which the laboratory can
report without estimating (see MDL
definition below).

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		0.50	0.081	ug/L			02/14/13 14:10	1
N-Propylbenzene	ND		0.50	0.057	ug/L			02/14/13 14:10	1
o-Xylene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			02/14/13 14:10	1
Styrene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
t-Butanol	ND		10	2.5	ug/L			02/14/13 14:10	1
tert-Butylbenzene	ND		0.50	0.060	ug/L				
Tetrachloroethene	ND		0.50	0.067	ug/L				
Toluene	ND		0.50	0.10	ug/L				
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L				
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L				
Trichloroethene	ND		0.50	0.060	ug/L				
Trichlorofluoromethane	ND		0.50	0.044	ug/L				
Vinyl chloride	ND		0.50	0.059	ug/L			02/14/13 14:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			02/14/13 14:10	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			02/14/13 14:10	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			02/14/13 14:10	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/14/13 14:10	1

MDL – Method Detection Limit - the lowest
concentration that the laboratory is capable of
detecting. Note that values reported under
"Results" column that are between the RL and
the MDL are estimated values and denoted with
a "j" under the "Qualifier" column.

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sum)	100		80 - 120		02/14/13 14:10	1
1,2-Dichlorobenzene-d4	104		80 - 120		02/14/13 14:10	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		02/13/13 17:26	02/14/13 15:02	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8 (Sum)	76		70 - 130	02/13/13 17:26	02/14/13 15:02	1			

These are Quality Assurance/Quality Control
measures to ensure that the laboratory
equipment is working correctly and reporting
accurate values for the chemicals analyzed.
These are **NOT** actual results from your well.

Date & time sample
was analyzed at lab

Level of 1,4-Dioxane in your well (ug/L)
ND = not detected

September 17, 2013

Paul H & Nancy J Underhill
255 Alston Avenue
Eastham, MA 02642

**Subject: Environmental Sampling Results
255 Alston Avenue**

Dear Mr. and Mrs. Underhill;

On behalf of the Town of Eastham, this letter transmits to you the results of water samples collected from your home on August 27, 2013. The water samples collected from your home were submitted for laboratory analysis of volatile organic compounds (VOCs) and 1,4 dioxane. The concentration of 1,4 dioxane detected in the sample (1.8 micrograms per liter or µg/L) is still above the bottled water action limit of 1.5 ug/L; therefore, you should continue using bottled water. Several other volatile organic compounds were detected at concentrations well below the Massachusetts drinking water standards. Pages from the laboratory report with these results are attached for your review, along with MassDEP-required form BWSC-123, a list of drinking water standards, and a sample laboratory report diagram.

Please call us at 508-226-1800 if you have any questions.

Sincerely,
Environmental Strategies & Management, Inc.



Douglas Heely, PG, LSP
Principal Geologist

Copy: Ms. Jane Crowley, Town of Eastham Board of Health



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, 255 Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Paul H & Nancy J Underhill
2. Street Address: 255 Alston Avenue
City/Town: Eastham Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 255 Alston Avenue
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____ (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Private well drinking water.

E. Contact information related to the party providing this notice:

Contact Name: Douglas Heely

Street Address: 273 West Main Street

City/Town: Norton Zip Code: 02766

Telephone: (508) 226-1800 Email: dheely@esm-inc.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the “disposal site”.)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Alston_255_Avenue

Lab Sample ID: 480-44857-2

Date Collected: 08/27/13 11:10

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 12:11	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 12:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 12:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 12:11	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 12:11	1
1,1-Dichloroethane	0.097	J	0.50	0.074	ug/L			09/03/13 12:11	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 12:11	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 12:11	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 12:11	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 12:11	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 12:11	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 12:11	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 12:11	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 12:11	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 12:11	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 12:11	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 12:11	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 12:11	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 12:11	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 12:11	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 12:11	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 12:11	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 12:11	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 12:11	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 12:11	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 12:11	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 12:11	1
Acetone	1.8	J	2.5	0.54	ug/L			09/03/13 12:11	1
Benzene	ND		0.50	0.13	ug/L			09/03/13 12:11	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 12:11	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 12:11	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 12:11	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 12:11	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 12:11	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 12:11	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 12:11	1
Chloroethane	ND		0.50	0.070	ug/L			09/03/13 12:11	1
Chloroform	0.83		0.50	0.14	ug/L			09/03/13 12:11	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 12:11	1
cis-1,2-Dichloroethene	0.28	J	0.50	0.12	ug/L			09/03/13 12:11	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 12:11	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 12:11	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 12:11	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 12:11	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 12:11	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 12:11	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 12:11	1
Methyl tert-butyl ether	0.17	J	0.50	0.12	ug/L			09/03/13 12:11	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 12:11	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Alston_255_Avenue

Lab Sample ID: 480-44857-2

Date Collected: 08/27/13 11:10

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 12:11	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 12:11	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 12:11	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 12:11	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 12:11	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 12:11	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 12:11	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 12:11	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 12:11	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 12:11	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 12:11	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 12:11	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 12:11	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 12:11	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 12:11	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 12:11	1
Vinyl chloride	0.090	J	0.50	0.059	ug/L			09/03/13 12:11	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 12:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	106		80 - 120		09/03/13 12:11	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/03/13 12:11	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.8		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	81		70 - 130	09/09/13 19:29	09/10/13 14:21	1

STANDARDS
(in ug/L)

Volatile Organic Compounds	ORSG	MMCL	GW1	Volatile Organic Compounds	ORSG	MMCL	GW1
1,1,1,2-Tetrachloroethane	NA	NA	5	Styrene	NA	100	100
1,1,1-Trichloroethane	NA	200	200	t-Butanol	120	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	2	tert-Butylbenzene	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	210000	NA	NA	Tetrachloroethene	NA	5	5
1,1,2-Trichloroethane	NA	5	5	Toluene	NA	1000	1000
1,1-Dichloroethane	70	NA	70	trans-1,2-Dichloroethene	NA	100	100
1,1-Dichloroethene	NA	7	7	trans-1,3-Dichloropropene	NA	NA	NA
1,1-Dichloropropene	NA	NA	NA	Trichloroethene	NA	5	5
1,2,3-Trichlorobenzene	NA	NA	NA	Trichlorofluoromethane	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA	Trihalomethanes, Total	NA	80	NA
1,2,4-Trichlorobenzene	NA	70	70	Vinyl chloride	NA	2	2
1,2,4-Trimethylbenzene	NA	NA	NA	Xylenes, Total	NA	10000	10000
1,2-Dibromo-3-Chloropropane	NA	0.2	NA	1,4-Dioxane	0.3	NA	0.3*
1,2-Dibromoethane	NA	0.02	0.02	Ethylene Dibromide	NA	0.02	0.02
1,2-Dichlorobenzene	NA	600	600				
1,2-Dichloroethane	NA	5	5				
1,2-Dichloropropane	NA	5	5				
1,3,5-Trimethylbenzene	NA	NA	NA				
1,3-Dichlorobenzene	NA	NA	40				
1,3-Dichloropropane	NA	NA	NA				
1,4-Dichlorobenzene	NA	5	5				
2,2-Dichloropropane	NA	NA	NA				
2-Butanone (MEK)	4000	NA	4000				
2-Chlorotoluene	NA	NA	NA				
4-Chlorotoluene	NA	NA	NA				
4-Isopropyltoluene	NA	NA	NA				
4-Methyl-2-pentanone (MIBK)	350	NA	350				
Acetone	6300	NA	6300				
Benzene	NA	5	5				
Bromobenzene	NA	NA	NA				
Bromochloromethane	NA	NA	NA				
Bromoform	NA	NA	4				
Bromomethane	10	NA	10				
Carbon tetrachloride	NA	5	5				
Chlorobenzene	NA	100	100				
Chlorodibromomethane	NA	NA	2				
Chloroethane	NA	NA	NA				
Chloroform	70	NA	70				
Chloromethane	NA	NA	NA				
cis-1,2-Dichloroethene	NA	70	70				
cis-1,3-Dichloropropene	NA	NA	NA				
Dibromomethane	NA	NA	NA				
Dichlorobromomethane	NA	NA	3				
Dichlorodifluoromethane	1400	NA	NA				
Ethylbenzene	NA	700	700				
Hexachlorobutadiene	NA	NA	0.6				
Isopropylbenzene	NA	NA	NA				
Methyl tert-butyl ether	70	NA	70				
Methylene Chloride	NA	5	5				
m-Xylene & p-Xylene	NA	NA	10000				
Naphthalene	140	NA	140				
n-Butylbenzene	NA	NA	NA				
N-Propylbenzene	NA	NA	NA				
o-Xylene	NA	NA	10000				
sec-Butylbenzene	NA	NA	NA				

ORSG - Office of Research and Standards Guidelines

MMCL - Massachusetts Maximum Contaminant Levels

GW-1 MCP Groundwater Standards that apply to groundwater that is a current or future source of drinking water



Client Sample Results (EXAMPLE)

Date sample collected
& date received at lab

Your Address Here

Client Sample ID:

Date Collected: 02/11/13 10:35

Date Received: 02/13/13 01:10

Sample ID # generated
by the Lab

Lab Sample ID: 480-32873-4
Matrix: Water

RL – Reporting Limit – the lowest
concentration which the laboratory can
report without estimating (see MDL
definition below).

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		0.50	0.081	ug/L			02/14/13 14:10	1
N-Propylbenzene	ND		0.50	0.057	ug/L			02/14/13 14:10	1
o-Xylene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			02/14/13 14:10	1
Styrene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
t-Butanol	ND		10	2.5	ug/L			02/14/13 14:10	1
tert-Butylbenzene	ND		0.50	0.060	ug/L				
Tetrachloroethene	ND		0.50	0.067	ug/L				
Toluene	ND		0.50	0.10	ug/L				
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L				
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L				
Trichloroethene	ND		0.50	0.060	ug/L				
Trichlorofluoromethane	ND		0.50	0.044	ug/L				
Vinyl chloride	ND		0.50	0.059	ug/L			02/14/13 14:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			02/14/13 14:10	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			02/14/13 14:10	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			02/14/13 14:10	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/14/13 14:10	1

MDL – Method Detection Limit - the lowest
concentration that the laboratory is capable of
detecting. Note that values reported under
"Results" column that are between the RL and
the MDL are estimated values and denoted with
a "j" under the "Qualifier" column.

Analyte - These are the
chemicals analyzed.

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sum)	100		80 - 120		02/14/13 14:10	1
1,2-Dichlorobenzene-d4	104		80 - 120		02/14/13 14:10	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		02/13/13 17:26	02/14/13 15:02	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8 (Sum)	76		70 - 130	02/13/13 17:26	02/14/13 15:02	1			

These are Quality Assurance/Quality Control
measures to ensure that the laboratory
equipment is working correctly and reporting
accurate values for the chemicals analyzed.
These are **NOT** actual results from your well.

Date & time sample
was analyzed at lab

Level of 1,4-Dioxane in your well (ug/L)
ND = not detected

September 17, 2013

Peter & Mary Martinelli
18 Park Circle Drive
Dalton, MA 01226

**Subject: Environmental Sampling Results
25 Knowles Street, Eastham, MA**

Dear Mr. and Mrs. Martinelli;

On behalf of the Town of Eastham, this letter transmits to you the results of water samples collected from your 25 Knowles Street property on August 27, 2013. The water samples were submitted for laboratory analysis of volatile organic compounds (VOCs) and 1,4 dioxane. The concentration of 1,4 dioxane detected in the sample (3.2 micrograms per liter or $\mu\text{g/L}$) is still above the bottled water action limit; therefore, you should continue using bottled water. Several other volatile organic compounds were detected at concentrations well below the Massachusetts drinking water standards. Pages from the laboratory report with these results are attached for your review, along with MassDEP-required form BWSC-123, a list of drinking water standards, and a sample laboratory report diagram.

Please call us at 508-226-1800 if you have any questions.

Sincerely,
Environmental Strategies & Management, Inc.



Douglas Heely, PG, LSP
Principal Geologist

Copy: Ms. Jane Crowley, Town of Eastham Board of Health



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, 255 Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Peter & Mary Martinelli
2. Street Address: 18 Park Circle Drive
City/Town: Dalton , MA Zip Code: 01226

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 25 Knowles Street
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commerical ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Private well drinking water.

E. Contact information related to the party providing this notice:

Contact Name: Douglas Heely

Street Address: 273 West Main Street

City/Town: Norton Zip Code: 02766

Telephone: (508) 226-1800 Email: dheely@esm-inc.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the “disposal site”.)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Knowles_025_Street

Lab Sample ID: 480-44857-3

Date Collected: 08/27/13 09:55

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 12:36	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 12:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 12:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 12:36	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 12:36	1
1,1-Dichloroethane	0.24	J	0.50	0.074	ug/L			09/03/13 12:36	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 12:36	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 12:36	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 12:36	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 12:36	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 12:36	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 12:36	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 12:36	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 12:36	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 12:36	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 12:36	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 12:36	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 12:36	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 12:36	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 12:36	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 12:36	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 12:36	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 12:36	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 12:36	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 12:36	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 12:36	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 12:36	1
Acetone	1.2	J	2.5	0.54	ug/L			09/03/13 12:36	1
Benzene	ND		0.50	0.13	ug/L			09/03/13 12:36	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 12:36	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 12:36	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 12:36	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 12:36	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 12:36	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 12:36	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 12:36	1
Chloroethane	0.14	J	0.50	0.070	ug/L			09/03/13 12:36	1
Chloroform	0.43	J	0.50	0.14	ug/L			09/03/13 12:36	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 12:36	1
cis-1,2-Dichloroethene	2.0		0.50	0.12	ug/L			09/03/13 12:36	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 12:36	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 12:36	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 12:36	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 12:36	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 12:36	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 12:36	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 12:36	1
Methyl tert-butyl ether	0.35	J	0.50	0.12	ug/L			09/03/13 12:36	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 12:36	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Knowles_025_Street

Lab Sample ID: 480-44857-3

Date Collected: 08/27/13 09:55

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 12:36	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 12:36	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 12:36	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 12:36	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 12:36	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 12:36	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 12:36	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 12:36	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 12:36	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 12:36	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 12:36	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 12:36	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 12:36	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 12:36	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 12:36	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 12:36	1
Vinyl chloride	0.081	J	0.50	0.059	ug/L			09/03/13 12:36	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		09/03/13 12:36	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/03/13 12:36	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.2		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	81		70 - 130	09/09/13 19:29	09/10/13 14:44	1

STANDARDS
(in ug/L)

Volatile Organic Compounds	ORSG	MMCL	GW1	Volatile Organic Compounds	ORSG	MMCL	GW1
1,1,1,2-Tetrachloroethane	NA	NA	5	Styrene	NA	100	100
1,1,1-Trichloroethane	NA	200	200	t-Butanol	120	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	2	tert-Butylbenzene	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	210000	NA	NA	Tetrachloroethene	NA	5	5
1,1,2-Trichloroethane	NA	5	5	Toluene	NA	1000	1000
1,1-Dichloroethane	70	NA	70	trans-1,2-Dichloroethene	NA	100	100
1,1-Dichloroethene	NA	7	7	trans-1,3-Dichloropropene	NA	NA	NA
1,1-Dichloropropene	NA	NA	NA	Trichloroethene	NA	5	5
1,2,3-Trichlorobenzene	NA	NA	NA	Trichlorofluoromethane	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA	Trihalomethanes, Total	NA	80	NA
1,2,4-Trichlorobenzene	NA	70	70	Vinyl chloride	NA	2	2
1,2,4-Trimethylbenzene	NA	NA	NA	Xylenes, Total	NA	10000	10000
1,2-Dibromo-3-Chloropropane	NA	0.2	NA	1,4-Dioxane	0.3	NA	0.3*
1,2-Dibromoethane	NA	0.02	0.02	Ethylene Dibromide	NA	0.02	0.02
1,2-Dichlorobenzene	NA	600	600				
1,2-Dichloroethane	NA	5	5				
1,2-Dichloropropane	NA	5	5				
1,3,5-Trimethylbenzene	NA	NA	NA				
1,3-Dichlorobenzene	NA	NA	40				
1,3-Dichloropropane	NA	NA	NA				
1,4-Dichlorobenzene	NA	5	5				
2,2-Dichloropropane	NA	NA	NA				
2-Butanone (MEK)	4000	NA	4000				
2-Chlorotoluene	NA	NA	NA				
4-Chlorotoluene	NA	NA	NA				
4-Isopropyltoluene	NA	NA	NA				
4-Methyl-2-pentanone (MIBK)	350	NA	350				
Acetone	6300	NA	6300				
Benzene	NA	5	5				
Bromobenzene	NA	NA	NA				
Bromochloromethane	NA	NA	NA				
Bromoform	NA	NA	4				
Bromomethane	10	NA	10				
Carbon tetrachloride	NA	5	5				
Chlorobenzene	NA	100	100				
Chlorodibromomethane	NA	NA	2				
Chloroethane	NA	NA	NA				
Chloroform	70	NA	70				
Chloromethane	NA	NA	NA				
cis-1,2-Dichloroethene	NA	70	70				
cis-1,3-Dichloropropene	NA	NA	NA				
Dibromomethane	NA	NA	NA				
Dichlorobromomethane	NA	NA	3				
Dichlorodifluoromethane	1400	NA	NA				
Ethylbenzene	NA	700	700				
Hexachlorobutadiene	NA	NA	0.6				
Isopropylbenzene	NA	NA	NA				
Methyl tert-butyl ether	70	NA	70				
Methylene Chloride	NA	5	5				
m-Xylene & p-Xylene	NA	NA	10000				
Naphthalene	140	NA	140				
n-Butylbenzene	NA	NA	NA				
N-Propylbenzene	NA	NA	NA				
o-Xylene	NA	NA	10000				
sec-Butylbenzene	NA	NA	NA				

ORSG - Office of Research and Standards Guidelines

MMCL - Massachusetts Maximum Contaminant Levels

GW-1 MCP Groundwater Standards that apply to groundwater that is a current or future source of drinking water



Client Sample Results (EXAMPLE)

Date sample collected
& date received at lab

Your Address Here

Client Sample ID:

Date Collected: 02/11/13 10:35

Date Received: 02/13/13 01:10

Sample ID # generated
by the Lab

Lab Sample ID: 480-32873-4
Matrix: Water

RL – Reporting Limit – the lowest
concentration which the laboratory can
report without estimating (see MDL
definition below).

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		0.50	0.081	ug/L			02/14/13 14:10	1
N-Propylbenzene	ND		0.50	0.057	ug/L			02/14/13 14:10	1
o-Xylene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			02/14/13 14:10	1
Styrene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
t-Butanol	ND		10	2.5	ug/L			02/14/13 14:10	1
tert-Butylbenzene	ND		0.50	0.060	ug/L				
Tetrachloroethene	ND		0.50	0.067	ug/L				
Toluene	ND		0.50	0.10	ug/L				
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L				
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L				
Trichloroethene	ND		0.50	0.060	ug/L				
Trichlorofluoromethane	ND		0.50	0.044	ug/L				
Vinyl chloride	ND		0.50	0.059	ug/L			02/14/13 14:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			02/14/13 14:10	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			02/14/13 14:10	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			02/14/13 14:10	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/14/13 14:10	1

MDL – Method Detection Limit - the lowest
concentration that the laboratory is capable of
detecting. Note that values reported under
"Results" column that are between the RL and
the MDL are estimated values and denoted with
a "j" under the "Qualifier" column.

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sum)	100		80 - 120		02/14/13 14:10	1
1,2-Dichlorobenzene-d4	104		80 - 120		02/14/13 14:10	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		02/13/13 17:26	02/14/13 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Sum)	76		70 - 130				02/13/13 17:26	02/14/13 15:02	1

These are Quality Assurance/Quality Control
measures to ensure that the laboratory
equipment is working correctly and reporting
accurate values for the chemicals analyzed.
These are **NOT** actual results from your well.

Date & time sample
was analyzed at lab

Level of 1,4-Dioxane in your well (ug/L)
ND = not detected

September 17, 2013

John A. Cunningham
PO Box 372
Eastham, MA 02642

**Subject: Environmental Sampling Results
30 Knowles Street, Eastham, MA**

Dear Mr. Cunningham;

On behalf of the Town of Eastham, this letter transmits to you the results of water samples collected from your 30 Knowles Street property on August 28, 2013. The water samples were submitted for laboratory analysis of volatile organic compounds (VOCs) and 1,4 dioxane. The concentration of 1,4 dioxane detected in the sample (5.6 micrograms per liter or $\mu\text{g/L}$) is still above the bottled water action limit; therefore, you should continue using bottled water. Several other volatile organic compounds were detected at concentrations well below the Massachusetts drinking water standards. Pages from the laboratory report with these results are attached for your review, along with MassDEP-required form BWSC-123, a list of drinking water standards, and a sample laboratory report diagram.

Please call us at 508-226-1800 if you have any questions.

Sincerely,
Environmental Strategies & Management, Inc.



Douglas Heely, PG, LSP
Principal Geologist

Copy: Ms. Jane Crowley, Town of Eastham Board of Health



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, 255 Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: John A Cunningham
2. Street Address: PO Box 372
City/Town: Eastham , MA Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 30 Knowles Street
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commerical ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Private well drinking water.

E. Contact information related to the party providing this notice:

Contact Name: Douglas Heely

Street Address: 273 West Main Street

City/Town: Norton Zip Code: 02766

Telephone: (508) 226-1800 Email: dheely@esm-inc.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the “disposal site”.)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Knowles_030_Street

Lab Sample ID: 480-44857-4

Date Collected: 08/28/13 10:10

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 13:01	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 13:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 13:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 13:01	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 13:01	1
1,1-Dichloroethane	0.32	J	0.50	0.074	ug/L			09/03/13 13:01	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 13:01	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 13:01	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 13:01	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 13:01	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 13:01	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 13:01	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 13:01	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 13:01	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 13:01	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 13:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 13:01	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:01	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 13:01	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:01	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 13:01	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 13:01	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 13:01	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 13:01	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 13:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 13:01	1
Acetone	ND		2.5	0.54	ug/L			09/03/13 13:01	1
Benzene	0.28	J	0.50	0.13	ug/L			09/03/13 13:01	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 13:01	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 13:01	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 13:01	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 13:01	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 13:01	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 13:01	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 13:01	1
Chloroethane	0.28	J	0.50	0.070	ug/L			09/03/13 13:01	1
Chloroform	0.19	J	0.50	0.14	ug/L			09/03/13 13:01	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 13:01	1
cis-1,2-Dichloroethene	1.4		0.50	0.12	ug/L			09/03/13 13:01	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 13:01	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 13:01	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 13:01	1
Dichlorodifluoromethane	0.22	J	0.50	0.070	ug/L			09/03/13 13:01	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 13:01	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 13:01	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 13:01	1
Methyl tert-butyl ether	0.76		0.50	0.12	ug/L			09/03/13 13:01	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 13:01	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Knowles_030_Street

Lab Sample ID: 480-44857-4

Date Collected: 08/28/13 10:10

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 13:01	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 13:01	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 13:01	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 13:01	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 13:01	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 13:01	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 13:01	1
t-Butanol	4.5	J	10	2.5	ug/L			09/03/13 13:01	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 13:01	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 13:01	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 13:01	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 13:01	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 13:01	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 13:01	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 13:01	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 13:01	1
Vinyl chloride	0.14	J	0.50	0.059	ug/L			09/03/13 13:01	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	101		80 - 120		09/03/13 13:01	1
4-Bromofluorobenzene (Surr)	100		80 - 120		09/03/13 13:01	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	5.6		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	94		70 - 130	09/09/13 19:29	09/10/13 11:42	1

STANDARDS
(in ug/L)

Volatile Organic Compounds	ORSG	MMCL	GW1	Volatile Organic Compounds	ORSG	MMCL	GW1
1,1,1,2-Tetrachloroethane	NA	NA	5	Styrene	NA	100	100
1,1,1-Trichloroethane	NA	200	200	t-Butanol	120	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	2	tert-Butylbenzene	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	210000	NA	NA	Tetrachloroethene	NA	5	5
1,1,2-Trichloroethane	NA	5	5	Toluene	NA	1000	1000
1,1-Dichloroethane	70	NA	70	trans-1,2-Dichloroethene	NA	100	100
1,1-Dichloroethene	NA	7	7	trans-1,3-Dichloropropene	NA	NA	NA
1,1-Dichloropropene	NA	NA	NA	Trichloroethene	NA	5	5
1,2,3-Trichlorobenzene	NA	NA	NA	Trichlorofluoromethane	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA	Trihalomethanes, Total	NA	80	NA
1,2,4-Trichlorobenzene	NA	70	70	Vinyl chloride	NA	2	2
1,2,4-Trimethylbenzene	NA	NA	NA	Xylenes, Total	NA	10000	10000
1,2-Dibromo-3-Chloropropane	NA	0.2	NA	1,4-Dioxane	0.3	NA	0.3*
1,2-Dibromoethane	NA	0.02	0.02	Ethylene Dibromide	NA	0.02	0.02
1,2-Dichlorobenzene	NA	600	600				
1,2-Dichloroethane	NA	5	5				
1,2-Dichloropropane	NA	5	5				
1,3,5-Trimethylbenzene	NA	NA	NA				
1,3-Dichlorobenzene	NA	NA	40				
1,3-Dichloropropane	NA	NA	NA				
1,4-Dichlorobenzene	NA	5	5				
2,2-Dichloropropane	NA	NA	NA				
2-Butanone (MEK)	4000	NA	4000				
2-Chlorotoluene	NA	NA	NA				
4-Chlorotoluene	NA	NA	NA				
4-Isopropyltoluene	NA	NA	NA				
4-Methyl-2-pentanone (MIBK)	350	NA	350				
Acetone	6300	NA	6300				
Benzene	NA	5	5				
Bromobenzene	NA	NA	NA				
Bromochloromethane	NA	NA	NA				
Bromoform	NA	NA	4				
Bromomethane	10	NA	10				
Carbon tetrachloride	NA	5	5				
Chlorobenzene	NA	100	100				
Chlorodibromomethane	NA	NA	2				
Chloroethane	NA	NA	NA				
Chloroform	70	NA	70				
Chloromethane	NA	NA	NA				
cis-1,2-Dichloroethene	NA	70	70				
cis-1,3-Dichloropropene	NA	NA	NA				
Dibromomethane	NA	NA	NA				
Dichlorobromomethane	NA	NA	3				
Dichlorodifluoromethane	1400	NA	NA				
Ethylbenzene	NA	700	700				
Hexachlorobutadiene	NA	NA	0.6				
Isopropylbenzene	NA	NA	NA				
Methyl tert-butyl ether	70	NA	70				
Methylene Chloride	NA	5	5				
m-Xylene & p-Xylene	NA	NA	10000				
Naphthalene	140	NA	140				
n-Butylbenzene	NA	NA	NA				
N-Propylbenzene	NA	NA	NA				
o-Xylene	NA	NA	10000				
sec-Butylbenzene	NA	NA	NA				

ORSG - Office of Research and Standards Guidelines

MMCL - Massachusetts Maximum Contaminant Levels

GW-1 MCP Groundwater Standards that apply to groundwater that is a current or future source of drinking water



Client Sample Results (EXAMPLE)

Date sample collected
& date received at lab

Your Address Here

Client Sample ID:

Date Collected: 02/11/13 10:35

Date Received: 02/13/13 01:10

Sample ID # generated
by the Lab

Lab Sample ID: 480-32873-4
Matrix: Water

RL – Reporting Limit – the lowest
concentration which the laboratory can
report without estimating (see MDL
definition below).

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		0.50	0.081	ug/L			02/14/13 14:10	1
N-Propylbenzene	ND		0.50	0.057	ug/L			02/14/13 14:10	1
o-Xylene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			02/14/13 14:10	1
Styrene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
t-Butanol	ND		10	2.5	ug/L			02/14/13 14:10	1
tert-Butylbenzene	ND		0.50	0.060	ug/L				
Tetrachloroethene	ND		0.50	0.067	ug/L				
Toluene	ND		0.50	0.10	ug/L				
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L				
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L				
Trichloroethene	ND		0.50	0.060	ug/L				
Trichlorofluoromethane	ND		0.50	0.044	ug/L				
Vinyl chloride	ND		0.50	0.059	ug/L			02/14/13 14:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			02/14/13 14:10	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			02/14/13 14:10	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			02/14/13 14:10	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/14/13 14:10	1

Analyte - These are the
chemicals analyzed.

MDL – Method Detection Limit - the lowest
concentration that the laboratory is capable of
detecting. Note that values reported under
“Results” column that are between the RL and
the MDL are estimated values and denoted with
a “j” under the “Qualifier” column.

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sum)	100		80 - 120		02/14/13 14:10	1
1,2-Dichlorobenzene-d4	104		80 - 120		02/14/13 14:10	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		02/13/13 17:26	02/14/13 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	76		70 - 130				02/13/13 17:26	02/14/13 15:02	1

Level of 1,4-Dioxane in your well (ug/L)
ND = not detected

These are Quality Assurance/Quality Control
measures to ensure that the laboratory
equipment is working correctly and reporting
accurate values for the chemicals analyzed.
These are **NOT** actual results from your well.

Date & time sample
was analyzed at lab

September 17, 2013

Thomas F & M Lynne Linnehan
50 Westminster Drive
Marlborough, MA 01752

**Subject: Environmental Sampling Results
45 Knowles Street, Eastham, MA**

Dear Mr. and Mrs. Linnehan;

On behalf of the Town of Eastham, this letter transmits to you the results of water samples collected from your 45 Knowles Street property on August 28, 2013. The water samples were submitted for laboratory analysis of volatile organic compounds (VOCs) and 1,4 dioxane. The concentration of 1,4 dioxane detected in the sample (2.0 micrograms per liter or $\mu\text{g/L}$) is still above the bottled water action limit; therefore, you should continue using bottled water. Several other volatile organic compounds were detected at concentrations well below the Massachusetts drinking water standards. Pages from the laboratory report with these results are attached for your review, along with MassDEP-required form BWSC-123, a list of drinking water standards, and a sample laboratory report diagram.

Please call us at 508-226-1800 if you have any questions.

Sincerely,
Environmental Strategies & Management, Inc.



Douglas Heely, PG, LSP
Principal Geologist

Copy: Ms. Jane Crowley, Town of Eastham Board of Health



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, 255 Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Thomas F & M Lynne Linnehan
2. Street Address: 50 Westminster Drive
City/Town: Marlborough, MA Zip Code: 01752

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 45 Knowles Street
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Private well drinking water.

E. Contact information related to the party providing this notice:

Contact Name: Douglas Heely

Street Address: 273 West Main Street

City/Town: Norton Zip Code: 02766

Telephone: (508) 226-1800 Email: dheely@esm-inc.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the “disposal site”.)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Knowles_045_Street

Lab Sample ID: 480-44857-5

Date Collected: 08/28/13 09:05

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 13:26	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 13:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 13:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 13:26	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 13:26	1
1,1-Dichloroethane	0.19	J	0.50	0.074	ug/L			09/03/13 13:26	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 13:26	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 13:26	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 13:26	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 13:26	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:26	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 13:26	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 13:26	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 13:26	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 13:26	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 13:26	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 13:26	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 13:26	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:26	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 13:26	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:26	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 13:26	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 13:26	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 13:26	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 13:26	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 13:26	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 13:26	1
Acetone	ND		2.5	0.54	ug/L			09/03/13 13:26	1
Benzene	0.18	J	0.50	0.13	ug/L			09/03/13 13:26	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 13:26	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 13:26	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 13:26	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 13:26	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 13:26	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 13:26	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 13:26	1
Chloroethane	0.16	J	0.50	0.070	ug/L			09/03/13 13:26	1
Chloroform	0.18	J	0.50	0.14	ug/L			09/03/13 13:26	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 13:26	1
cis-1,2-Dichloroethene	0.91		0.50	0.12	ug/L			09/03/13 13:26	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 13:26	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 13:26	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 13:26	1
Dichlorodifluoromethane	0.24	J	0.50	0.070	ug/L			09/03/13 13:26	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 13:26	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 13:26	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 13:26	1
Methyl tert-butyl ether	0.32	J	0.50	0.12	ug/L			09/03/13 13:26	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 13:26	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Knowles_045_Street

Lab Sample ID: 480-44857-5

Date Collected: 08/28/13 09:05

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 13:26	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 13:26	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 13:26	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 13:26	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 13:26	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 13:26	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 13:26	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 13:26	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 13:26	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 13:26	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 13:26	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 13:26	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 13:26	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 13:26	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 13:26	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 13:26	1
Vinyl chloride	0.13	J	0.50	0.059	ug/L			09/03/13 13:26	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		09/03/13 13:26	1
4-Bromofluorobenzene (Surr)	100		80 - 120		09/03/13 13:26	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	83		70 - 130	09/09/13 19:29	09/10/13 12:22	1

STANDARDS
(in ug/L)

Volatile Organic Compounds	ORSG	MMCL	GW1	Volatile Organic Compounds	ORSG	MMCL	GW1
1,1,1,2-Tetrachloroethane	NA	NA	5	Styrene	NA	100	100
1,1,1-Trichloroethane	NA	200	200	t-Butanol	120	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	2	tert-Butylbenzene	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	210000	NA	NA	Tetrachloroethene	NA	5	5
1,1,2-Trichloroethane	NA	5	5	Toluene	NA	1000	1000
1,1-Dichloroethane	70	NA	70	trans-1,2-Dichloroethene	NA	100	100
1,1-Dichloroethene	NA	7	7	trans-1,3-Dichloropropene	NA	NA	NA
1,1-Dichloropropene	NA	NA	NA	Trichloroethene	NA	5	5
1,2,3-Trichlorobenzene	NA	NA	NA	Trichlorofluoromethane	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA	Trihalomethanes, Total	NA	80	NA
1,2,4-Trichlorobenzene	NA	70	70	Vinyl chloride	NA	2	2
1,2,4-Trimethylbenzene	NA	NA	NA	Xylenes, Total	NA	10000	10000
1,2-Dibromo-3-Chloropropane	NA	0.2	NA	1,4-Dioxane	0.3	NA	0.3*
1,2-Dibromoethane	NA	0.02	0.02	Ethylene Dibromide	NA	0.02	0.02
1,2-Dichlorobenzene	NA	600	600				
1,2-Dichloroethane	NA	5	5				
1,2-Dichloropropane	NA	5	5				
1,3,5-Trimethylbenzene	NA	NA	NA				
1,3-Dichlorobenzene	NA	NA	40				
1,3-Dichloropropane	NA	NA	NA				
1,4-Dichlorobenzene	NA	5	5				
2,2-Dichloropropane	NA	NA	NA				
2-Butanone (MEK)	4000	NA	4000				
2-Chlorotoluene	NA	NA	NA				
4-Chlorotoluene	NA	NA	NA				
4-Isopropyltoluene	NA	NA	NA				
4-Methyl-2-pentanone (MIBK)	350	NA	350				
Acetone	6300	NA	6300				
Benzene	NA	5	5				
Bromobenzene	NA	NA	NA				
Bromochloromethane	NA	NA	NA				
Bromoform	NA	NA	4				
Bromomethane	10	NA	10				
Carbon tetrachloride	NA	5	5				
Chlorobenzene	NA	100	100				
Chlorodibromomethane	NA	NA	2				
Chloroethane	NA	NA	NA				
Chloroform	70	NA	70				
Chloromethane	NA	NA	NA				
cis-1,2-Dichloroethene	NA	70	70				
cis-1,3-Dichloropropene	NA	NA	NA				
Dibromomethane	NA	NA	NA				
Dichlorobromomethane	NA	NA	3				
Dichlorodifluoromethane	1400	NA	NA				
Ethylbenzene	NA	700	700				
Hexachlorobutadiene	NA	NA	0.6				
Isopropylbenzene	NA	NA	NA				
Methyl tert-butyl ether	70	NA	70				
Methylene Chloride	NA	5	5				
m-Xylene & p-Xylene	NA	NA	10000				
Naphthalene	140	NA	140				
n-Butylbenzene	NA	NA	NA				
N-Propylbenzene	NA	NA	NA				
o-Xylene	NA	NA	10000				
sec-Butylbenzene	NA	NA	NA				

ORSG - Office of Research and Standards Guidelines

MMCL - Massachusetts Maximum Contaminant Levels

GW-1 MCP Groundwater Standards that apply to groundwater that is a current or future source of drinking water



Client Sample Results (EXAMPLE)

Date sample collected
& date received at lab

Your Address Here

Client Sample ID:

Date Collected: 02/11/13 10:35

Date Received: 02/13/13 01:10

Sample ID # generated
by the Lab

Lab Sample ID: 480-32873-4
Matrix: Water

RL – Reporting Limit – the lowest
concentration which the laboratory can
report without estimating (see MDL
definition below).

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		0.50	0.081	ug/L			02/14/13 14:10	1
N-Propylbenzene	ND		0.50	0.057	ug/L			02/14/13 14:10	1
o-Xylene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			02/14/13 14:10	1
Styrene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
t-Butanol	ND		10	2.5	ug/L			02/14/13 14:10	1
tert-Butylbenzene	ND		0.50	0.060	ug/L				
Tetrachloroethene	ND		0.50	0.067	ug/L				
Toluene	ND		0.50	0.10	ug/L				
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L				
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L				
Trichloroethene	ND		0.50	0.060	ug/L				
Trichlorofluoromethane	ND		0.50	0.044	ug/L				
Vinyl chloride	ND		0.50	0.059	ug/L			02/14/13 14:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			02/14/13 14:10	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			02/14/13 14:10	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			02/14/13 14:10	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/14/13 14:10	1

Analyte - These are the
chemicals analyzed.

MDL – Method Detection Limit - the lowest
concentration that the laboratory is capable of
detecting. Note that values reported under
“Results” column that are between the RL and
the MDL are estimated values and denoted with
a “j” under the “Qualifier” column.

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sum)	100		80 - 120		02/14/13 14:10	1
1,2-Dichlorobenzene-d4	104		80 - 120		02/14/13 14:10	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		02/13/13 17:26	02/14/13 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Sum)	76		70 - 130				02/13/13 17:26	02/14/13 15:02	1

Level of 1,4-Dioxane in your well (ug/L)
ND = not detected

These are Quality Assurance/Quality Control
measures to ensure that the laboratory
equipment is working correctly and reporting
accurate values for the chemicals analyzed.
These are **NOT** actual results from your well.

Date & time sample
was analyzed at lab

September 17, 2013

Jeffrey L Carlson
Box 284
Eastham, MA 02642

**Subject: Environmental Sampling Results
100 Meetinghouse Road, Eastham, MA**

Dear Mr. Carlson;

On behalf of the Town of Eastham, this letter transmits to you the results of water samples collected from your 100 Meetinghouse Road property on August 27, 2013. The water samples were submitted for laboratory analysis of arsenic, volatile organic compounds (VOCs) and 1,4 dioxane. The concentration of 1,4 dioxane detected in the sample (1.9 micrograms per liter or µg/L) is still above the bottled water action limit; therefore, you should continue using bottled water. Two other volatile organic compounds were detected at concentrations well below the Massachusetts drinking water standards. Arsenic was not detected above the laboratory reporting limit. Pages from the laboratory report with these results are attached for your review, along with MassDEP-required form BWSC-123, a list of drinking water standards, and a sample laboratory report diagram.

Please call us at 508-226-1800 if you have any questions.

Sincerely,
Environmental Strategies & Management, Inc.



Douglas Heely, PG, LSP
Principal Geologist

Copy: Ms. Jane Crowley, Town of Eastham Board of Health



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, 255 Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Jeffrey L Carlson
2. Street Address: Box 284
City/Town: Eastham, MA Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 100 Meetinghouse Road
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Private well drinking water.

E. Contact information related to the party providing this notice:

Contact Name: Douglas Heely

Street Address: 273 West Main Street

City/Town: Norton Zip Code: 02766

Telephone: (508) 226-1800 Email: dheely@esm-inc.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the “disposal site”.)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Meetinghouse_100_Road

Lab Sample ID: 480-44857-6

Date Collected: 08/27/13 11:55

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 13:51	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 13:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 13:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 13:51	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 13:51	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			09/03/13 13:51	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 13:51	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 13:51	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 13:51	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 13:51	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:51	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 13:51	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 13:51	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 13:51	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 13:51	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 13:51	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 13:51	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 13:51	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:51	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 13:51	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 13:51	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 13:51	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 13:51	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 13:51	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 13:51	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 13:51	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 13:51	1
Acetone	1.1	J	2.5	0.54	ug/L			09/03/13 13:51	1
Benzene	ND		0.50	0.13	ug/L			09/03/13 13:51	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 13:51	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 13:51	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 13:51	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 13:51	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 13:51	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 13:51	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 13:51	1
Chloroethane	ND		0.50	0.070	ug/L			09/03/13 13:51	1
Chloroform	0.39	J	0.50	0.14	ug/L			09/03/13 13:51	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 13:51	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			09/03/13 13:51	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 13:51	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 13:51	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 13:51	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 13:51	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 13:51	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 13:51	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 13:51	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			09/03/13 13:51	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 13:51	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Meetinghouse_100_Road

Lab Sample ID: 480-44857-6

Date Collected: 08/27/13 11:55

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 13:51	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 13:51	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 13:51	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 13:51	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 13:51	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 13:51	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 13:51	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 13:51	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 13:51	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 13:51	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 13:51	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 13:51	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 13:51	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 13:51	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 13:51	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 13:51	1
Vinyl chloride	ND		0.50	0.059	ug/L			09/03/13 13:51	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		80 - 120		09/03/13 13:51	1
4-Bromofluorobenzene (Surr)	100		80 - 120		09/03/13 13:51	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.9		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	106		70 - 130	09/09/13 19:29	09/10/13 12:44	1

STANDARDS
(in ug/L)

Volatile Organic Compounds	ORSG	MMCL	GW1	Volatile Organic Compounds	ORSG	MMCL	GW1
1,1,1,2-Tetrachloroethane	NA	NA	5	Styrene	NA	100	100
1,1,1-Trichloroethane	NA	200	200	t-Butanol	120	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	2	tert-Butylbenzene	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	210000	NA	NA	Tetrachloroethene	NA	5	5
1,1,2-Trichloroethane	NA	5	5	Toluene	NA	1000	1000
1,1-Dichloroethane	70	NA	70	trans-1,2-Dichloroethene	NA	100	100
1,1-Dichloroethene	NA	7	7	trans-1,3-Dichloropropene	NA	NA	NA
1,1-Dichloropropene	NA	NA	NA	Trichloroethene	NA	5	5
1,2,3-Trichlorobenzene	NA	NA	NA	Trichlorofluoromethane	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA	Trihalomethanes, Total	NA	80	NA
1,2,4-Trichlorobenzene	NA	70	70	Vinyl chloride	NA	2	2
1,2,4-Trimethylbenzene	NA	NA	NA	Xylenes, Total	NA	10000	10000
1,2-Dibromo-3-Chloropropane	NA	0.2	NA	1,4-Dioxane	0.3	NA	0.3*
1,2-Dibromoethane	NA	0.02	0.02	Ethylene Dibromide	NA	0.02	0.02
1,2-Dichlorobenzene	NA	600	600				
1,2-Dichloroethane	NA	5	5				
1,2-Dichloropropane	NA	5	5				
1,3,5-Trimethylbenzene	NA	NA	NA				
1,3-Dichlorobenzene	NA	NA	40				
1,3-Dichloropropane	NA	NA	NA				
1,4-Dichlorobenzene	NA	5	5				
2,2-Dichloropropane	NA	NA	NA				
2-Butanone (MEK)	4000	NA	4000				
2-Chlorotoluene	NA	NA	NA				
4-Chlorotoluene	NA	NA	NA				
4-Isopropyltoluene	NA	NA	NA				
4-Methyl-2-pentanone (MIBK)	350	NA	350				
Acetone	6300	NA	6300				
Benzene	NA	5	5				
Bromobenzene	NA	NA	NA				
Bromochloromethane	NA	NA	NA				
Bromoform	NA	NA	4				
Bromomethane	10	NA	10				
Carbon tetrachloride	NA	5	5				
Chlorobenzene	NA	100	100				
Chlorodibromomethane	NA	NA	2				
Chloroethane	NA	NA	NA				
Chloroform	70	NA	70				
Chloromethane	NA	NA	NA				
cis-1,2-Dichloroethene	NA	70	70				
cis-1,3-Dichloropropene	NA	NA	NA				
Dibromomethane	NA	NA	NA				
Dichlorobromomethane	NA	NA	3				
Dichlorodifluoromethane	1400	NA	NA				
Ethylbenzene	NA	700	700				
Hexachlorobutadiene	NA	NA	0.6				
Isopropylbenzene	NA	NA	NA				
Methyl tert-butyl ether	70	NA	70				
Methylene Chloride	NA	5	5				
m-Xylene & p-Xylene	NA	NA	10000				
Naphthalene	140	NA	140				
n-Butylbenzene	NA	NA	NA				
N-Propylbenzene	NA	NA	NA				
o-Xylene	NA	NA	10000				
sec-Butylbenzene	NA	NA	NA				

ORSG - Office of Research and Standards Guidelines

MMCL - Massachusetts Maximum Contaminant Levels

GW-1 MCP Groundwater Standards that apply to groundwater that is a current or future source of drinking water



Client Sample Results (EXAMPLE)

Date sample collected
& date received at lab

Your Address Here

Client Sample ID:

Date Collected: 02/11/13 10:35

Date Received: 02/13/13 01:10

Sample ID # generated
by the Lab

Lab Sample ID: 480-32873-4
Matrix: Water

RL – Reporting Limit – the lowest
concentration which the laboratory can
report without estimating (see MDL
definition below).

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		0.50	0.081	ug/L			02/14/13 14:10	1
N-Propylbenzene	ND		0.50	0.057	ug/L			02/14/13 14:10	1
o-Xylene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			02/14/13 14:10	1
Styrene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
t-Butanol	ND		10	2.5	ug/L			02/14/13 14:10	1
tert-Butylbenzene	ND		0.50	0.060	ug/L				
Tetrachloroethene	ND		0.50	0.067	ug/L				
Toluene	ND		0.50	0.10	ug/L				
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L				
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L				
Trichloroethene	ND		0.50	0.060	ug/L				
Trichlorofluoromethane	ND		0.50	0.044	ug/L				
Vinyl chloride	ND		0.50	0.059	ug/L			02/14/13 14:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			02/14/13 14:10	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			02/14/13 14:10	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			02/14/13 14:10	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/14/13 14:10	1

MDL – Method Detection Limit - the lowest
concentration that the laboratory is capable of
detecting. Note that values reported under
"Results" column that are between the RL and
the MDL are estimated values and denoted with
a "j" under the "Qualifier" column.

Analyte - These are the
chemicals analyzed.

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sum)	100		80 - 120		02/14/13 14:10	1
1,2-Dichlorobenzene-d4	104		80 - 120		02/14/13 14:10	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		02/13/13 17:26	02/14/13 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Sum)	76		70 - 130				02/13/13 17:26	02/14/13 15:02	1

These are Quality Assurance/Quality Control
measures to ensure that the laboratory
equipment is working correctly and reporting
accurate values for the chemicals analyzed.
These are **NOT** actual results from your well.

Date & time sample
was analyzed at lab

Level of 1,4-Dioxane in your well (ug/L)
ND = not detected



September 10, 2013

John & Primm Ffrench
PO Box 323
Stockbridge MA 01262

**Subject: Environmental Sampling Results
155 Meetinghouse Road, Eastham, MA**

Dear Mr. and Mrs. Ffrench;

On behalf of the Town of Eastham, this letter transmits to you the results of water samples collected from your home on August 15, 2013. Water samples were originally collected from your home on July 31, 2013, and those results were transmitted to you in a letter dated August 15, 2013. During this initial sampling event, lead was detected at a concentration of 0.017 milligrams per liter (mg/l), which is above the drinking water standard of 0.015 mg/l. Because lead is a common constituent in many plumbing systems and is not related to contaminants in groundwater, a second sample was collected on August 15th near the pressure tank. This location was deemed to be more representative of the groundwater that serves as your source of drinking water. As shown on the attached laboratory report, lead was not detected in this sample. Therefore, no further action relative to lead is needed.

Please call us at 508-226-1800 if you have any questions.

Sincerely,
Environmental Strategies & Management, Inc.

Douglas Heely, PG, LSP
Principal Geologist

Copy: Ms. Jane Crowley, Town of Eastham Board of Health



CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory (M-MA009)

Page: 1 of 1

Report Prepared For:

David Bennett
Bennett Environmental Associates, Inc
1573 Main Street, P O Box 1743
Brewster, MA 02631

Report Dated: 8/19/2013

Order No.: G1376401

Laboratory ID #: 1376401-01

Description: Water - Drinking Water

Sample #: BEA11-10104

Sample Location: 155 Meetinghouse (RES-6)

Collected: 08/15/2013

Collected by: Customer

Received: 08/15/2013

Landfill Metals Total

ITEM	RESULT	UNITS	RL	MCL	METHOD #	ANALYST	TESTED	NOTE
Arsenic	ND	mg/L	0.0030	0.01	EPA 6020A	KK	8/19/2013	
Barium	0.025	mg/L	0.0030	2.0	EPA 6020A	KK	8/19/2013	
Cadmium	ND	mg/L	0.0030	0.005	EPA 6020A	KK	8/19/2013	
Chromium	ND	mg/L	0.0030	0.1	EPA 6020A	KK	8/19/2013	
Copper	0.047	mg/L	0.0030		EPA 6020A	KK	8/19/2013	
Lead	ND	mg/L	0.0030	0.015	EPA 6020A	KK	8/19/2013	
Mercury	ND	mg/L	0.00030	0.002	EPA 6020A	KK	8/19/2013	
Selenium	ND	mg/L	0.015	0.05	EPA 6020A	KK	8/19/2013	
Silver	ND	mg/L	0.0030		EPA 6020A	KK	8/19/2013	
Zinc	ND	mg/L	0.060		EPA 6020A	KK	8/19/2013	

Attached please find the laboratory certified parameter list.

Approved By:
(Lab Director)

Jengmin Lei
8/20/2013

ND = None Detected

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605

Barnstable County Department of
Health and the Environment

76401-01
Superior Court House
P. O. Box 427
Barnstable, MA 02630
(508) 375-6605; 6612

pg 1 of 1
CHAIN OF CUSTODY

CLIENT NAME: Bennett Environmental Associates, Inc.

ADDRESS: 1573 Main St./P.O. Box 1743
Brewster, MA 02631

PROJECT NAME: T.O. Eastham PROJECT NUMBER: BEA11-10104

PROJECT SITE: Eastham Landfill SAMPLER: _____

1)

DATE/ TIME:	SAMPLE NUMBER	SAMPLE LOCATION	NO. OF SAMPLES	ANALYSES REQUIRED	COMMENTS
8/15/13 11:20am		155 Meetinghouse (RES-6)	1	As, Ba, Cd, Cr, Cu Pb, Hg, Se, Ag, Zn	

RELINGUISHED BY: _____ DATE/TIME: _____ RECEIVED BY: _____ DATE/TIME: _____

 8/15/13 12:00am BEA sample fridge 8/15/13 12:00pm

RELINGUISHED BY: _____ DATE/TIME: _____ RECEIVED BY: _____ DATE/TIME: _____

 8/15/13 3:50 Ed Hughes 8-15-13 15:50

REC (1) 250 mL w/HNO3



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: John and Primm Ffrench
2. Street Address: P.O. Box 323
City/Town: Stockbridge Zip Code: 01262

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 155 Meetinghouse Road
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commerical ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

water samples were collected from private residential drinking water well

E. Contact information related to the party providing this notice:

Contact Name: Environmental Strategies & Mngmt/Douglas Heely

Street Address: 273 West Main Street

City/Town: Norton Zip Code: 02766

Telephone: (508) 226-1800 Email: dheely@esm-inc.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the “disposal site”.)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

September 17, 2013

Douglas Okane and Mark Okane
619 South Pearl Street
Denver, CO 80209

**Subject: Environmental Sampling Results
180 Old Orchard Road, Eastham, MA**

Dear Douglas Okane and Mark Okane;

On behalf of the Town of Eastham, this letter transmits to you the results of water samples collected from your 180 Old Orchard Road property on August 28, 2013. The water samples were submitted for laboratory analysis of arsenic, volatile organic compounds (VOCs) and 1,4 dioxane. 1,4 dioxane was detected in the sample at a concentration of 0.46 micrograms per liter or µg/L. Although the Massachusetts "GW-1" drinking water standard is currently set at 3 ug/L, the Massachusetts Department of Environmental Protection is planning on lowering this standard to 0.3 ug/L in the near future. In light of this, the Town of Eastham has elected to adopt this proposed standard as the new bottled water action limit. Therefore, bottled water will be provided to you immediately for consumptive purposes. Two other volatile organic compounds were detected at concentrations well below the Massachusetts drinking water standards. Arsenic was not detected above the laboratory reporting limit.

Pages from the laboratory reports with these results are attached for your review, along with MassDEP-required form BWSC-123, a list of drinking water standards, and a sample laboratory report diagram. Also attached please find a fact sheet about 1,4 dioxane published by MassDEP.

Please call us at 508-226-1800 if you have any questions.

Sincerely,
Environmental Strategies & Management, Inc.



Douglas Heely, PG, LSP
Principal Geologist

Copy: Ms. Jane Crowley, Town of Eastham Board of Health



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, 255 Old Orchard Road
City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Douglas Okane and Mark Okane
2. Street Address: 619 South Pearl Street
City/Town: Denver, CO Zip Code: 80209

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 180 Old Orchard Road
City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____ (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Private well drinking water.

E. Contact information related to the party providing this notice:

Contact Name: Douglas Heely

Street Address: 273 West Main Street

City/Town: Norton Zip Code: 02766

Telephone: (508) 226-1800 Email: dheely@esm-inc.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the “disposal site”.)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Old Orchard_180_Road

Lab Sample ID: 480-44857-7

Date Collected: 08/28/13 11:05

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 14:16	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 14:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 14:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 14:16	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 14:16	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			09/03/13 14:16	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 14:16	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 14:16	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 14:16	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 14:16	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 14:16	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 14:16	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 14:16	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 14:16	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 14:16	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 14:16	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 14:16	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 14:16	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 14:16	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 14:16	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 14:16	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 14:16	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 14:16	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 14:16	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 14:16	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 14:16	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 14:16	1
Acetone	ND		2.5	0.54	ug/L			09/03/13 14:16	1
Benzene	ND		0.50	0.13	ug/L			09/03/13 14:16	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 14:16	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 14:16	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 14:16	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 14:16	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 14:16	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 14:16	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 14:16	1
Chloroethane	ND		0.50	0.070	ug/L			09/03/13 14:16	1
Chloroform	0.51		0.50	0.14	ug/L			09/03/13 14:16	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 14:16	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			09/03/13 14:16	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 14:16	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 14:16	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 14:16	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 14:16	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 14:16	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 14:16	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 14:16	1
Methyl tert-butyl ether	0.19 J		0.50	0.12	ug/L			09/03/13 14:16	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 14:16	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Old Orchard_180_Road

Lab Sample ID: 480-44857-7

Date Collected: 08/28/13 11:05

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 14:16	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 14:16	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 14:16	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 14:16	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 14:16	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 14:16	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 14:16	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 14:16	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 14:16	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 14:16	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 14:16	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 14:16	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 14:16	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 14:16	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 14:16	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 14:16	1
Vinyl chloride	ND		0.50	0.059	ug/L			09/03/13 14:16	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		09/03/13 14:16	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/03/13 14:16	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.46		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	88		70 - 130	09/09/13 19:29	09/10/13 13:07	1



CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory (M-MA009)

Page: 1 of 1

Report Prepared For:

Report Dated: 8/30/2013

L. Flynn

Environmental Strategies & Management

273 W. Main St.

Norton, MA 02766

Order No.: G1376817

Laboratory ID #: 1376817-01

Description: Water - Drinking Water

Sample #:

Sample Location: 100 Meetinghouse Road

Collected: 08/27/2013

Collected by: Customer

Received: 08/28/2013

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>METHOD #</u>	<u>TESTED</u>
Arsenic, Total	ND	mg/L	0.0030	0.010	EPA 6020A	8/29/2013

Laboratory ID #: 1376817-02

Description: Water - Drinking Water

Sample #:

Sample Location: 180 Old Orchard Road

Collected: 08/28/2013

Collected by: Customer

Received: 08/28/2013

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>METHOD #</u>	<u>TESTED</u>
Arsenic, Total	ND	mg/L	0.0030	0.010	EPA 6020A	8/29/2013

Attached please find the laboratory certified parameter list.

Approved By:
(Lab Director)

Jongmin Lee
9/5/2013

ND = None Detected

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



Department of Environmental Protection

One Winter Street Boston, MA 02108 • 617-292-5500

DEVAL L. PATRICK
Governor

TIMOTHY P. MURRAY
Lieutenant Governor

RICHARD K. SULLIVAN JR.
Secretary

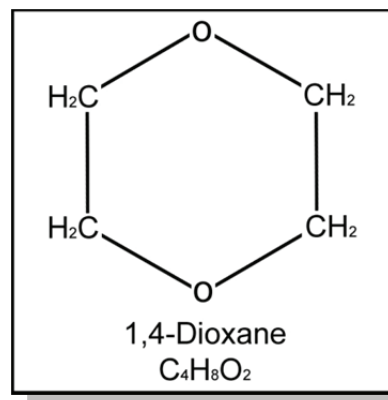
KENNETH L. KIMMELL
Commissioner

1,4-Dioxane in Drinking Water

What is 1,4-Dioxane?

1,4-Dioxane ($C_4H_8O_2$) is a clear liquid used primarily as a solvent in the manufacture of chemicals. It is also used as a laboratory reagent, in adhesives, and it may also be present in small amounts in cosmetics and consumer products such as detergents and shampoos. 1,4-Dioxane dissolves and moves quickly in groundwater.

[Note: 1,4-dioxane is not the same as “dioxin,” which is a very different type of chemical.]



How Might I be Exposed?

People can be exposed to 1,4-dioxane by drinking contaminated water or using it to make beverages such as tea, coffee or formula. The amount of 1,4-dioxane absorbed through the skin during showering and bathing is not significant, although children may be incidentally exposed by ingesting water during bathing. Showering is not generally an exposure pathway of concern because 1,4-dioxane does not readily evaporate from water.

What Are The Health Effects of 1,4-Dioxane?

The possible health effects of 1,4-dioxane depend on the levels in water and the length of time someone is exposed to it. Scientific studies suggest that people exposed to elevated levels of 1,4-dioxane may have an increased risk of certain cancers. In several laboratory studies, high doses of 1,4-dioxane given to animals over long periods of time have caused liver and nasal cancers.

There are also non-cancer health effects associated with exposure to 1,4-dioxane. Very high levels of 1,4-dioxane can affect the nervous system, causing loss of coordination, dizziness and headache. These high levels can also cause liver and kidney damage. The guideline set to protect against cancer effects is low, and thus protects against the non-cancer effects as well.

What Is the Drinking Water Limit for 1,4-Dioxane?

MassDEP sets health-protective standards and guidelines for chemicals in drinking water. In 2011, MassDEP set a state drinking water guideline for 1,4-dioxane of 0.3 µg/L (micrograms per liter, sometimes described as parts-per-billion, or 'ppb'). This guideline is set to protect against cancer risk and is also protective against possible noncancer health effects.

What Is The Basis For The Drinking Water Guideline?

Drinking water guidelines are calculated using the US EPA's chemical-specific toxicity information, in this case for 1,4-dioxane. The guidelines include an adult consumption of 2 liters per day of contaminated water throughout a 70-year lifetime. For carcinogens, the guidelines are based on a cancer risk of one in one million from a lifetime exposure. This low risk limit used for setting guidelines for individual chemicals helps to ensure that mixtures of chemicals in drinking water will not exceed health protective limits (total risk from mixtures of one in a hundred thousand).

What is the Cleanup Requirement for Groundwater?

The MassDEP cleanup standard for 1,4-dioxane in groundwater that may be a source of drinking water (category GW-1) is currently 3 µg/L. This GW-1 standard is being revised to be consistent with the drinking water guideline of 0.3 µg/L.

As an alternative to the GW-1 standard, the cleanup may be based on site-specific health risk. Using this method, the health risk from all chemicals present in the groundwater would be assessed, and the cleanup requirement would be based on a total site risk limit of one in a hundred thousand. If 1,4-dioxane were the only contaminant present at a site, the cleanup goal would be 5 µg/L in the groundwater.

What Can I Do to Protect My Family from 1,4-Dioxane?

If you have concerns about the levels of 1,4-Dioxane in your drinking water, you may want to consider switching to drinking bottled water until your tap water meets the MassDEP's health-protective drinking water guideline.

STANDARDS
(in ug/L)

Volatile Organic Compounds	ORSG	MMCL	GW1	Volatile Organic Compounds	ORSG	MMCL	GW1
1,1,1,2-Tetrachloroethane	NA	NA	5	Styrene	NA	100	100
1,1,1-Trichloroethane	NA	200	200	t-Butanol	120	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	2	tert-Butylbenzene	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	210000	NA	NA	Tetrachloroethene	NA	5	5
1,1,2-Trichloroethane	NA	5	5	Toluene	NA	1000	1000
1,1-Dichloroethane	70	NA	70	trans-1,2-Dichloroethene	NA	100	100
1,1-Dichloroethene	NA	7	7	trans-1,3-Dichloropropene	NA	NA	NA
1,1-Dichloropropene	NA	NA	NA	Trichloroethene	NA	5	5
1,2,3-Trichlorobenzene	NA	NA	NA	Trichlorofluoromethane	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA	Trihalomethanes, Total	NA	80	NA
1,2,4-Trichlorobenzene	NA	70	70	Vinyl chloride	NA	2	2
1,2,4-Trimethylbenzene	NA	NA	NA	Xylenes, Total	NA	10000	10000
1,2-Dibromo-3-Chloropropane	NA	0.2	NA	1,4-Dioxane	0.3	NA	0.3*
1,2-Dibromoethane	NA	0.02	0.02	Ethylene Dibromide	NA	0.02	0.02
1,2-Dichlorobenzene	NA	600	600				
1,2-Dichloroethane	NA	5	5				
1,2-Dichloropropane	NA	5	5				
1,3,5-Trimethylbenzene	NA	NA	NA				
1,3-Dichlorobenzene	NA	NA	40				
1,3-Dichloropropane	NA	NA	NA				
1,4-Dichlorobenzene	NA	5	5				
2,2-Dichloropropane	NA	NA	NA				
2-Butanone (MEK)	4000	NA	4000				
2-Chlorotoluene	NA	NA	NA				
4-Chlorotoluene	NA	NA	NA				
4-Isopropyltoluene	NA	NA	NA				
4-Methyl-2-pentanone (MIBK)	350	NA	350				
Acetone	6300	NA	6300				
Benzene	NA	5	5				
Bromobenzene	NA	NA	NA				
Bromochloromethane	NA	NA	NA				
Bromoform	NA	NA	4				
Bromomethane	10	NA	10				
Carbon tetrachloride	NA	5	5				
Chlorobenzene	NA	100	100				
Chlorodibromomethane	NA	NA	2				
Chloroethane	NA	NA	NA				
Chloroform	70	NA	70				
Chloromethane	NA	NA	NA				
cis-1,2-Dichloroethene	NA	70	70				
cis-1,3-Dichloropropene	NA	NA	NA				
Dibromomethane	NA	NA	NA				
Dichlorobromomethane	NA	NA	3				
Dichlorodifluoromethane	1400	NA	NA				
Ethylbenzene	NA	700	700				
Hexachlorobutadiene	NA	NA	0.6				
Isopropylbenzene	NA	NA	NA				
Methyl tert-butyl ether	70	NA	70				
Methylene Chloride	NA	5	5				
m-Xylene & p-Xylene	NA	NA	10000				
Naphthalene	140	NA	140				
n-Butylbenzene	NA	NA	NA				
N-Propylbenzene	NA	NA	NA				
o-Xylene	NA	NA	10000				
sec-Butylbenzene	NA	NA	NA				

ORSG - Office of Research and Standards Guidelines

MMCL - Massachusetts Maximum Contaminant Levels

GW-1 MCP Groundwater Standards that apply to groundwater that is a current or future source of drinking water



Client Sample Results (EXAMPLE)

Date sample collected
& date received at lab

Your Address Here

Client Sample ID: 480-32873-4
Date Collected: 02/11/13 10:35
Date Received: 02/13/13 01:10

Sample ID # generated
by the Lab

Lab Sample ID: 480-32873-4
Matrix: Water

RL – Reporting Limit – the lowest
concentration which the laboratory can
report without estimating (see MDL
definition below).

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		0.50	0.081	ug/L			02/14/13 14:10	1
N-Propylbenzene	ND		0.50	0.057	ug/L			02/14/13 14:10	1
o-Xylene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			02/14/13 14:10	1
Styrene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
t-Butanol	ND		10	2.5	ug/L			02/14/13 14:10	1
tert-Butylbenzene	ND		0.50	0.060	ug/L				
Tetrachloroethene	ND		0.50	0.067	ug/L				
Toluene	ND		0.50	0.10	ug/L				
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L				
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L				
Trichloroethene	ND		0.50	0.060	ug/L				
Trichlorofluoromethane	ND		0.50	0.044	ug/L				
Vinyl chloride	ND		0.50	0.059	ug/L			02/14/13 14:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			02/14/13 14:10	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			02/14/13 14:10	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			02/14/13 14:10	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/14/13 14:10	1

Analyte - These are the
chemicals analyzed.

MDL – Method Detection Limit - the lowest
concentration that the laboratory is capable of
detecting. Note that values reported under
“Results” column that are between the RL and
the MDL are estimated values and denoted with
a “j” under the “Qualifier” column.

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sum)	100		80 - 120		02/14/13 14:10	1
1,2-Dichlorobenzene-d4	104		80 - 120		02/14/13 14:10	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		02/13/13 17:26	02/14/13 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	76		70 - 130				02/13/13 17:26	02/14/13 15:02	1

Level of 1,4-Dioxane in your well (ug/L)
ND = not detected

These are Quality Assurance/Quality Control
measures to ensure that the laboratory
equipment is working correctly and reporting
accurate values for the chemicals analyzed.
These are **NOT** actual results from your well.

Date & time sample
was analyzed at lab

September 17, 2013

Stephen & Lisa Colley
325 Schoolhouse Road
Eastham, MA 02642

**Subject: Environmental Sampling Results
325 Schoolhouse Road, Eastham, MA**

Dear Mr. and Mrs. Colley;

On behalf of the Town of Eastham, this letter transmits to you the results of water samples collected from your home on August 27, 2013. Water samples were collected from the influent to your treatment system, the mid-point of the system (between the two carbon vessels) and from the effluent of the system. The samples were submitted for laboratory analysis of volatile organic compounds (VOCs) and 1,4 dioxane. The concentration of 1,4 dioxane in the untreated water entering the treatment system is still above the bottled water action limit. 1,4 dioxane was not detected above the detection limit in either the mid-point or effluent samples. Other volatile organic compounds were detected below the Massachusetts drinking water standards in the influent and mid-point samples, but VOCs were not detected in the effluent sample. Pages from the laboratory report with these results are attached for your review, along with MassDEP-required form BWSC-123, a list of drinking water standards, and a sample laboratory report diagram.

Please call us at 508-226-1800 if you have any questions.

Sincerely,
Environmental Strategies & Management, Inc.



Douglas Heely, PG, LSP
Principal Geologist

Copy: Ms. Jane Crowley, Town of Eastham Board of Health



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

4

24301

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: Eastham Landfill, 255 Old Orchard Road

City/Town: Eastham Zip Code: 02642

B. This notice is being provided to the following party:

1. Name: Stephen W Jr & Lisa A Colley

2. Street Address: 325 Schoolhouse Road

City/Town: Eastham, MA Zip Code: 02642

C. This notice is being given to inform its recipient (the party listed in Section B):

- ☒ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- ☒ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- ☒ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 325 Schoolhouse Road

City/Town: Eastham Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

☒ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☐ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Class C Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____
- (specify)

3. Description of property where sampling will be/has been conducted:

☒ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____

(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Private well drinking water.

E. Contact information related to the party providing this notice:

Contact Name: Douglas Heely

Street Address: 273 West Main Street

City/Town: Norton Zip Code: 02766

Telephone: (508) 226-1800 Email: dheely@esm-inc.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the “disposal site”.)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Schoolhouse_325_Road-INF

Lab Sample ID: 480-44857-8

Date Collected: 08/27/13 13:05

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 14:41	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 14:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 14:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 14:41	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 14:41	1
1,1-Dichloroethane	0.37	J	0.50	0.074	ug/L			09/03/13 14:41	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 14:41	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 14:41	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 14:41	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 14:41	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 14:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 14:41	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 14:41	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 14:41	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 14:41	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 14:41	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 14:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 14:41	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 14:41	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 14:41	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 14:41	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 14:41	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 14:41	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 14:41	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 14:41	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 14:41	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 14:41	1
Acetone	1.4	J	2.5	0.54	ug/L			09/03/13 14:41	1
Benzene	0.63		0.50	0.13	ug/L			09/03/13 14:41	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 14:41	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 14:41	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 14:41	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 14:41	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 14:41	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 14:41	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 14:41	1
Chloroethane	0.59		0.50	0.070	ug/L			09/03/13 14:41	1
Chloroform	ND		0.50	0.14	ug/L			09/03/13 14:41	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 14:41	1
cis-1,2-Dichloroethene	2.4		0.50	0.12	ug/L			09/03/13 14:41	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 14:41	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 14:41	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 14:41	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 14:41	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 14:41	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 14:41	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 14:41	1
Methyl tert-butyl ether	1.7		0.50	0.12	ug/L			09/03/13 14:41	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 14:41	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Schoolhouse_325_Road-INF

Lab Sample ID: 480-44857-8

Date Collected: 08/27/13 13:05

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 14:41	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 14:41	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 14:41	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 14:41	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 14:41	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 14:41	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 14:41	1
t-Butanol	9.5	J	10	2.5	ug/L			09/03/13 14:41	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 14:41	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 14:41	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 14:41	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 14:41	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 14:41	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 14:41	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 14:41	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 14:41	1
Vinyl chloride	0.21	J	0.50	0.059	ug/L			09/03/13 14:41	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	106		80 - 120		09/03/13 14:41	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/03/13 14:41	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	7.7		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	72		70 - 130	09/09/13 19:29	09/10/13 13:30	1

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Schoolhouse_325_Road-MID

Lab Sample ID: 480-44857-9

Date Collected: 08/27/13 13:00

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 15:06	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 15:06	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 15:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 15:06	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 15:06	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			09/03/13 15:06	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 15:06	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 15:06	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 15:06	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 15:06	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 15:06	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 15:06	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 15:06	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 15:06	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 15:06	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 15:06	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 15:06	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 15:06	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 15:06	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 15:06	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 15:06	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 15:06	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 15:06	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 15:06	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 15:06	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 15:06	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 15:06	1
Acetone	0.57	J	2.5	0.54	ug/L			09/03/13 15:06	1
Benzene	ND		0.50	0.13	ug/L			09/03/13 15:06	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 15:06	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 15:06	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 15:06	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 15:06	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 15:06	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 15:06	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 15:06	1
Chloroethane	ND		0.50	0.070	ug/L			09/03/13 15:06	1
Chloroform	ND		0.50	0.14	ug/L			09/03/13 15:06	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 15:06	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			09/03/13 15:06	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 15:06	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 15:06	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 15:06	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 15:06	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 15:06	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 15:06	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 15:06	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			09/03/13 15:06	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 15:06	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Schoolhouse_325_Road-MID

Lab Sample ID: 480-44857-9

Date Collected: 08/27/13 13:00

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 15:06	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 15:06	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 15:06	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 15:06	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 15:06	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 15:06	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 15:06	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 15:06	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 15:06	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 15:06	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 15:06	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 15:06	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 15:06	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 15:06	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 15:06	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 15:06	1
Vinyl chloride	ND		0.50	0.059	ug/L			09/03/13 15:06	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		09/03/13 15:06	1
4-Bromofluorobenzene (Surr)	101		80 - 120		09/03/13 15:06	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	97		70 - 130	09/09/13 19:29	09/10/13 15:30	1

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Schoolhouse_325_Road-EFF

Lab Sample ID: 480-44857-10

Date Collected: 08/27/13 12:55

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			09/03/13 15:31	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			09/03/13 15:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/03/13 15:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			09/03/13 15:31	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			09/03/13 15:31	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			09/03/13 15:31	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			09/03/13 15:31	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			09/03/13 15:31	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			09/03/13 15:31	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			09/03/13 15:31	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 15:31	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			09/03/13 15:31	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			09/03/13 15:31	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			09/03/13 15:31	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			09/03/13 15:31	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			09/03/13 15:31	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/03/13 15:31	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			09/03/13 15:31	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 15:31	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			09/03/13 15:31	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			09/03/13 15:31	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			09/03/13 15:31	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			09/03/13 15:31	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 15:31	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			09/03/13 15:31	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			09/03/13 15:31	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			09/03/13 15:31	1
Acetone	ND		2.5	0.54	ug/L			09/03/13 15:31	1
Benzene	ND		0.50	0.13	ug/L			09/03/13 15:31	1
Bromobenzene	ND		0.50	0.13	ug/L			09/03/13 15:31	1
Bromochloromethane	ND		0.50	0.11	ug/L			09/03/13 15:31	1
Bromoform	ND		0.50	0.13	ug/L			09/03/13 15:31	1
Bromomethane	ND		0.50	0.051	ug/L			09/03/13 15:31	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			09/03/13 15:31	1
Chlorobenzene	ND		0.50	0.12	ug/L			09/03/13 15:31	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			09/03/13 15:31	1
Chloroethane	ND		0.50	0.070	ug/L			09/03/13 15:31	1
Chloroform	ND		0.50	0.14	ug/L			09/03/13 15:31	1
Chloromethane	ND		0.50	0.063	ug/L			09/03/13 15:31	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			09/03/13 15:31	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			09/03/13 15:31	1
Dibromomethane	ND		0.50	0.17	ug/L			09/03/13 15:31	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			09/03/13 15:31	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			09/03/13 15:31	1
Ethylbenzene	ND		0.50	0.11	ug/L			09/03/13 15:31	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			09/03/13 15:31	1
Isopropylbenzene	ND		0.50	0.053	ug/L			09/03/13 15:31	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			09/03/13 15:31	1
Methylene Chloride	ND		0.50	0.25	ug/L			09/03/13 15:31	1

TestAmerica Buffalo

Client Sample Results

Client: Environmental Strategies and Management
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-44857-1

Client Sample ID: Schoolhouse_325_Road-EFF

Lab Sample ID: 480-44857-10

Date Collected: 08/27/13 12:55

Matrix: Water

Date Received: 08/30/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			09/03/13 15:31	1
Naphthalene	ND		0.50	0.060	ug/L			09/03/13 15:31	1
n-Butylbenzene	ND		0.50	0.081	ug/L			09/03/13 15:31	1
N-Propylbenzene	ND		0.50	0.057	ug/L			09/03/13 15:31	1
o-Xylene	ND		0.50	0.044	ug/L			09/03/13 15:31	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			09/03/13 15:31	1
Styrene	ND		0.50	0.044	ug/L			09/03/13 15:31	1
t-Butanol	ND		10	2.5	ug/L			09/03/13 15:31	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			09/03/13 15:31	1
Tetrachloroethene	ND		0.50	0.067	ug/L			09/03/13 15:31	1
Toluene	ND		0.50	0.10	ug/L			09/03/13 15:31	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/03/13 15:31	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			09/03/13 15:31	1
Trichloroethene	ND		0.50	0.060	ug/L			09/03/13 15:31	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			09/03/13 15:31	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			09/03/13 15:31	1
Vinyl chloride	ND		0.50	0.059	ug/L			09/03/13 15:31	1
Xylenes, Total	ND		1.0	0.20	ug/L			09/03/13 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		09/03/13 15:31	1
4-Bromofluorobenzene (Surr)	100		80 - 120		09/03/13 15:31	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		09/09/13 19:29	09/10/13 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	91		70 - 130	09/09/13 19:29	09/10/13 15:53	1

STANDARDS
(in ug/L)

Volatile Organic Compounds	ORSG	MMCL	GW1	Volatile Organic Compounds	ORSG	MMCL	GW1
1,1,1,2-Tetrachloroethane	NA	NA	5	Styrene	NA	100	100
1,1,1-Trichloroethane	NA	200	200	t-Butanol	120	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	2	tert-Butylbenzene	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	210000	NA	NA	Tetrachloroethene	NA	5	5
1,1,2-Trichloroethane	NA	5	5	Toluene	NA	1000	1000
1,1-Dichloroethane	70	NA	70	trans-1,2-Dichloroethene	NA	100	100
1,1-Dichloroethene	NA	7	7	trans-1,3-Dichloropropene	NA	NA	NA
1,1-Dichloropropene	NA	NA	NA	Trichloroethene	NA	5	5
1,2,3-Trichlorobenzene	NA	NA	NA	Trichlorofluoromethane	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA	Trihalomethanes, Total	NA	80	NA
1,2,4-Trichlorobenzene	NA	70	70	Vinyl chloride	NA	2	2
1,2,4-Trimethylbenzene	NA	NA	NA	Xylenes, Total	NA	10000	10000
1,2-Dibromo-3-Chloropropane	NA	0.2	NA	1,4-Dioxane	0.3	NA	0.3*
1,2-Dibromoethane	NA	0.02	0.02	Ethylene Dibromide	NA	0.02	0.02
1,2-Dichlorobenzene	NA	600	600				
1,2-Dichloroethane	NA	5	5				
1,2-Dichloropropane	NA	5	5				
1,3,5-Trimethylbenzene	NA	NA	NA				
1,3-Dichlorobenzene	NA	NA	40				
1,3-Dichloropropane	NA	NA	NA				
1,4-Dichlorobenzene	NA	5	5				
2,2-Dichloropropane	NA	NA	NA				
2-Butanone (MEK)	4000	NA	4000				
2-Chlorotoluene	NA	NA	NA				
4-Chlorotoluene	NA	NA	NA				
4-Isopropyltoluene	NA	NA	NA				
4-Methyl-2-pentanone (MIBK)	350	NA	350				
Acetone	6300	NA	6300				
Benzene	NA	5	5				
Bromobenzene	NA	NA	NA				
Bromochloromethane	NA	NA	NA				
Bromoform	NA	NA	4				
Bromomethane	10	NA	10				
Carbon tetrachloride	NA	5	5				
Chlorobenzene	NA	100	100				
Chlorodibromomethane	NA	NA	2				
Chloroethane	NA	NA	NA				
Chloroform	70	NA	70				
Chloromethane	NA	NA	NA				
cis-1,2-Dichloroethene	NA	70	70				
cis-1,3-Dichloropropene	NA	NA	NA				
Dibromomethane	NA	NA	NA				
Dichlorobromomethane	NA	NA	3				
Dichlorodifluoromethane	1400	NA	NA				
Ethylbenzene	NA	700	700				
Hexachlorobutadiene	NA	NA	0.6				
Isopropylbenzene	NA	NA	NA				
Methyl tert-butyl ether	70	NA	70				
Methylene Chloride	NA	5	5				
m-Xylene & p-Xylene	NA	NA	10000				
Naphthalene	140	NA	140				
n-Butylbenzene	NA	NA	NA				
N-Propylbenzene	NA	NA	NA				
o-Xylene	NA	NA	10000				
sec-Butylbenzene	NA	NA	NA				

ORSG - Office of Research and Standards Guidelines

MMCL - Massachusetts Maximum Contaminant Levels

GW-1 MCP Groundwater Standards that apply to groundwater that is a current or future source of drinking water



Client Sample Results (EXAMPLE)

Date sample collected
& date received at lab

Your Address Here

Client Sample ID:

Date Collected: 02/11/13 10:35

Date Received: 02/13/13 01:10

Sample ID # generated
by the Lab

Lab Sample ID: 480-32873-4
Matrix: Water

RL – Reporting Limit – the lowest
concentration which the laboratory can
report without estimating (see MDL
definition below).

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		0.50	0.081	ug/L			02/14/13 14:10	1
N-Propylbenzene	ND		0.50	0.057	ug/L			02/14/13 14:10	1
o-Xylene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			02/14/13 14:10	1
Styrene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
t-Butanol	ND		10	2.5	ug/L			02/14/13 14:10	1
tert-Butylbenzene	ND		0.50	0.060	ug/L				
Tetrachloroethene	ND		0.50	0.067	ug/L				
Toluene	ND		0.50	0.10	ug/L				
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L				
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L				
Trichloroethene	ND		0.50	0.060	ug/L				
Trichlorofluoromethane	ND		0.50	0.044	ug/L				
Vinyl chloride	ND		0.50	0.059	ug/L			02/14/13 14:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			02/14/13 14:10	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			02/14/13 14:10	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			02/14/13 14:10	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/14/13 14:10	1

Analyte - These are the
chemicals analyzed.

MDL – Method Detection Limit - the lowest
concentration that the laboratory is capable of
detecting. Note that values reported under
“Results” column that are between the RL and
the MDL are estimated values and denoted with
a “j” under the “Qualifier” column.

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sum)	100		80 - 120		02/14/13 14:10	1
1,2-Dichlorobenzene-d4	104		80 - 120		02/14/13 14:10	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		02/13/13 17:26	02/14/13 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	76		70 - 130				02/13/13 17:26	02/14/13 15:02	1

Level of 1,4-Dioxane in your well (ug/L)
ND = not detected

These are Quality Assurance/Quality Control
measures to ensure that the laboratory
equipment is working correctly and reporting
accurate values for the chemicals analyzed.
These are **NOT** actual results from your well.

Date & time sample
was analyzed at lab



Barnstable County Health Laboratory

ANALYTICAL REPORT FOR

Environmental Strategies & Management, Inc. (Landf

Report Prepared for:

Environmental Strategies & Management, Inc.
Lisa Flynn, Re: Landfill
273 West Main Street
Norton, MA 02766

Order #: G1376990

No. of Samples: 4

Date Received: 9/5/2013



CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory (M-MA009)

Page: 1 of 3

Report Prepared For:

Report Dated: 9/17/2013

Lisa Flynn, Re: Landfill

Environmental Strategies & Management, Inc.

273 West Main Street

Norton, MA 02766

Order No.: G1376990**Laboratory ID #: 1376990-01**

Description: Water - Monitoring Well

Sample #:

Sample Location: MW 3I

Collected: 09/05/2013

Collected by: LKM

Received: 09/05/2013

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	METHOD #	ANALYST	TESTED	NOTE
COD	13	mg/L	3.0		HACH 8000	LAP	9/16/2013	
Cyanide, Total	ND	mg/L	0.010		SM4500-CN-E	LAP	9/12/2013	

Landfill Metals_Dissolved

ITEM	RESULT	UNITS	RL	MCL	METHOD #	ANALYST	TESTED	NOTE
Arsenic	0.038	mg/L	0.0030	0.01	EPA 6020A	KK	9/6/2013	
Barium	0.010	mg/L	0.0030	2.0	EPA 6020A	KK	9/6/2013	
Cadmium	ND	mg/L	0.0030	0.005	EPA 6020A	KK	9/6/2013	
Chromium	ND	mg/L	0.0030	0.1	EPA 6020A	KK	9/6/2013	
Copper	ND	mg/L	0.0030		EPA 6020A	KK	9/6/2013	
Iron	68	mg/L	0.10		EPA 6020A	KK	9/13/2013	
Lead	ND	mg/L	0.0030	0.015	EPA 6020A	KK	9/6/2013	
Manganese	1.1	mg/L	0.0030		EPA 6020A	KK	9/6/2013	
Mercury	ND	mg/L	0.00030	0.002	EPA 6020A	KK	9/6/2013	
Selenium	ND	mg/L	0.015	0.05	EPA 6020A	KK	9/6/2013	
Silver	ND	mg/L	0.0030		EPA 6020A	KK	9/18/2013	
Zinc	ND	mg/L	0.060		EPA 6020A	KK	9/6/2013	

Landfill Inorganics_01

ITEM	RESULT	UNITS	RL	MCL	METHOD #	ANALYST	TESTED	NOTE
Nitrate as Nitrogen	ND	mg/L	0.10		EPA 300.0	DCB	9/5/2013	
Alkalinity	190	mg/L as CaCO ₃	2.0		SM 2320B	DCB	9/5/2013	
Chloride	12	mg/L	1.0		EPA 300.0	DCB	9/5/2013	
Sulfate	39	mg/L	1.0		EPA 300.0	DCB	9/5/2013	
Total Dissolved Solids	240	mg/L	7.0		SM 2540C	DCB	9/5/2013	

ND = None Detected

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory (M-MA009)

Page: 2 of 3

Report Prepared For:

Report Dated: 9/17/2013

Lisa Flynn, Re: Landfill
Environmental Strategies & Management, Inc.
273 West Main Street
Norton, MA 02766

Order No.: G1376990

Laboratory ID #: 1376990-02

Description: Water - Monitoring Well

Sample #:

Sample Location: MW 3D

Collected: 09/05/2013

Collected by: LKM

Received: 09/05/2013

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	METHOD #	ANALYST	TESTED	NOTE
COD	56	mg/L	2.0		HACH 8000	LAP	9/16/2013	
Cyanide, Total	ND	mg/L	0.010		SM4500-CN-E	LAP	9/12/2013	

Landfill Metals_Dissolved

ITEM	RESULT	UNITS	RL	MCL	METHOD #	ANALYST	TESTED	NOTE
Arsenic	0.064	mg/L	0.0030	0.01	EPA 6020A	KK	9/6/2013	
Barium	0.089	mg/L	0.0030	2.0	EPA 6020A	KK	9/6/2013	
Cadmium	ND	mg/L	0.0030	0.005	EPA 6020A	KK	9/6/2013	
Chromium	0.0047	mg/L	0.0030	0.1	EPA 6020A	KK	9/6/2013	
Copper	ND	mg/L	0.0030		EPA 6020A	KK	9/6/2013	
Iron	36	mg/L	0.10		EPA 6020A	KK	9/13/2013	
Lead	ND	mg/L	0.0030	0.015	EPA 6020A	KK	9/6/2013	
Manganese	1.3	mg/L	0.0030		EPA 6020A	KK	9/6/2013	
Mercury	ND	mg/L	0.00030	0.002	EPA 6020A	KK	9/6/2013	
Selenium	ND	mg/L	0.015	0.05	EPA 6020A	KK	9/6/2013	
Silver	ND	mg/L	0.0030		EPA 6020A	KK	9/18/2013	
Zinc	ND	mg/L	0.060		EPA 6020A	KK	9/6/2013	

Landfill Inorganics_01

ITEM	RESULT	UNITS	RL	MCL	METHOD #	ANALYST	TESTED	NOTE
Nitrate as Nitrogen	ND	mg/L	0.10		EPA 300.0	DCB	9/5/2013	
Alkalinity	870	mg/L as CaCO ₃	2.0		SM 2320B	DCB	9/5/2013	
Chloride	96	mg/L	1.0		EPA 300.0	DCB	9/5/2013	
Sulfate	66	mg/L	1.0		EPA 300.0	DCB	9/5/2013	
Total Dissolved Solids	2,500	mg/L	7.0		SM 2540C	DCB	9/5/2013	

ND = None Detected

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory (M-MA009)

Page: 3 of 3

Report Prepared For:

Report Dated: 9/17/2013

Lisa Flynn, Re: Landfill
Environmental Strategies & Management, Inc.
273 West Main Street
Norton, MA 02766

Order No.: G1376990

Laboratory ID #: 1376990-03

Description: Water - Monitoring Well

Sample #:

Sample Location: BCH #13

Collected: 09/05/2013

Collected by: LKM

Received: 09/05/2013

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	METHOD #	ANALYST	TESTED	NOTE
COD	51	mg/L	2.0		HACH 8000	LAP	9/16/2013	
Cyanide, Total	ND	mg/L	0.010		SM4500-CN-E	LAP	9/12/2013	

Landfill Metals_Dissolved

ITEM	RESULT	UNITS	RL	MCL	METHOD #	ANALYST	TESTED	NOTE
Arsenic	0.067	mg/L	0.0030	0.01	EPA 6020A	KK	9/6/2013	
Barium	0.089	mg/L	0.0030	2.0	EPA 6020A	KK	9/6/2013	
Cadmium	ND	mg/L	0.0030	0.005	EPA 6020A	KK	9/6/2013	
Chromium	0.0059	mg/L	0.0030	0.1	EPA 6020A	KK	9/6/2013	
Copper	ND	mg/L	0.0030		EPA 6020A	KK	9/6/2013	
Iron	35	mg/L	0.10		EPA 6020A	KK	9/13/2013	
Lead	ND	mg/L	0.0030	0.015	EPA 6020A	KK	9/6/2013	
Manganese	1.4	mg/L	0.0030		EPA 6020A	KK	9/6/2013	
Mercury	ND	mg/L	0.00030	0.002	EPA 6020A	KK	9/6/2013	
Selenium	ND	mg/L	0.015	0.05	EPA 6020A	KK	9/6/2013	
Silver	ND	mg/L	0.0030		EPA 6020A	KK	9/18/2013	
Zinc	ND	mg/L	0.060		EPA 6020A	KK	9/6/2013	

Landfill Inorganics_01

ITEM	RESULT	UNITS	RL	MCL	METHOD #	ANALYST	TESTED	NOTE
Nitrate as Nitrogen	ND	mg/L	0.10		EPA 300.0	DCB	9/5/2013	
Alkalinity	860	mg/L as CaCO	2.0		SM 2320B	DCB	9/5/2013	
Chloride	95	mg/L	1.0		EPA 300.0	DCB	9/5/2013	
Sulfate	66	mg/L	1.0		EPA 300.0	DCB	9/5/2013	
Total Dissolved Solids	2,500	mg/L	7.0		SM 2540C	DCB	9/5/2013	

Attached please find the laboratory certified parameter list.

Approved By:
(Lab Director)

Jongmin Lei
9/18/2013

ND = None Detected

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory (M-MA009)

Recipient: Lisa Flynn, Re: Landfill
Environmental Strategies & Management, Inc.
273 West Main Street
Norton, MA 02766

Order#: G1376990
Lab ID: 1376990-01
Sample #:
Method: 8260B
Comment:

Matrix: Water - Monitoring Well
Sampled: 09/05/2013 10:30
Received: 09/05/2013 13:15
Collection Address: MW 3I
Sample Location:
Description: Landfill
Date Analyzed: 9/5/2013 @ 9:57
Analyst: yn
Dilution Factor: 1

EPA 8260 - Volatile Organics by GC/MS + Ketones +

Parameter	Result ug/L	MCL ug/L	MDL ug/L	Parameter	Result ug/L	MCL ug/L	MDL ug/L
1,1,1,2-Tetrachloroethane	ND		0.5	Chlorobenzene	ND		0.5
1,1,1-Trichloroethane	ND		0.5	Chloroethane	ND		0.5
1,1,2,2-Tetrachloroethane	ND		0.5	Chloroform	ND		0.5
1,1,2-Trichloroethane	ND		0.5	Chloromethane	ND		0.5
1,1-Dichloroethane	ND		0.5	cis-1,2-Dichloroethene	ND		0.5
1,1-Dichloroethene	ND		0.5	cis-1,3-Dichloropropene	ND		0.5
1,1-Dichloropropene	ND		0.5	Dibromochloromethane	ND		0.5
1,2,3-Trichlorobenzene	ND		0.5	Dibromomethane	ND		0.5
1,2,3-Trichloropropane	ND		0.5	Dichlorodifluoromethane	ND		0.5
1,2,4-Trichlorobenzene	ND		0.5	Ethylbenzene	ND		0.5
1,2,4-Trimethylbenzene	ND		0.5	Hexachlorobutadiene	ND		0.5
1,2-Dibromo-3-chloropropane	ND		0.5	Isopropylbenzene	ND		0.5
1,2-Dibromoethane (EDB)	ND		0.5	Methylene chloride	ND		0.5
1,2-Dichlorobenzene	ND		0.5	Methyl-tert-butyl ether	ND		0.5
1,2-Dichloroethane	ND		0.5	Naphthalene	ND		0.5
1,2-Dichloropropane	ND		0.5	n-Butylbenzene	ND		0.5
1,3,5-Trimethylbenzene	ND		0.5	n-Propylbenzene	ND		0.5
1,3-Dichlorobenzene	ND		0.5	p-Isopropyltoluene	ND		0.5
1,3-Dichloropropane	ND		0.5	sec-Butylbenzene	ND		0.5
1,4-Dichlorobenzene	ND		0.5	Styrene	ND		0.5
1,4-Dioxane	ND		500	tert-Butylbenzene	ND		0.5
2,2-Dichloropropane	ND		0.5	Tetrachloroethene	ND		0.5
2-Butanone	ND		5.0	Toluene	ND		0.5
2-Chlorotoluene	ND		0.5	Total xylenes	ND		0.5
2-Hexanone	ND		5.0	trans-1,2-Dichloroethene	ND		0.5
4-Chlorotoluene	ND		0.5	trans-1,3-Dichloropropene	ND		0.5
4-Methyl-2-pentanone	ND		5.0	Trichloroethene	ND		0.5
Acetone	ND		5.0	Trichlorofluoromethane	ND		0.5
Benzene	ND		0.5	Vinyl chloride	ND		0.5
Bromobenzene	ND		0.5				
Bromochloromethane	ND		0.5				
Bromodichloromethane	ND		0.5				
Bromoform	ND		0.5				
Bromomethane	ND		0.5				
Carbon tetrachloride	ND		0.5				

Attached please find the laboratory certified parameter list.

ND = None Detected

RL = Reporting Limit

Approved By: *Jenqmin Lei*
(Lab Director)

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605

Page 1 of 4



CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory (M-MA009)

Recipient: Lisa Flynn, Re: Landfill
Environmental Strategies & Management, Inc.
273 West Main Street
Norton, MA 02766

Order#: G1376990
Lab ID: 1376990-02
Sample #:
Method: 8260B
Comment:

Matrix: Water - Monitoring Well
Sampled: 09/05/2013 10:30
Received: 09/05/2013 13:15
Collection Address: MW 3D
Sample Location:
Description: Landfill
Date Analyzed: 9/5/2013 @ 9:57
Analyst: yn
Dilution Factor: 1

EPA 8260 - Volatile Organics by GC/MS + Ketones +

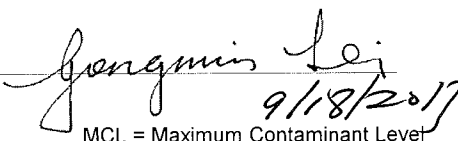
Parameter	Result ug/L	MCL ug/L	MDL ug/L	Parameter	Result ug/L	MCL ug/L	MDL ug/L
1,1,1,2-Tetrachloroethane	ND		0.5	Chlorobenzene	1.6		0.5
1,1,1-Trichloroethane	ND		0.5	Chloroethane	ND		0.5
1,1,2,2-Tetrachloroethane	ND		0.5	Chloroform	ND		0.5
1,1,2-Trichloroethane	ND		0.5	Chloromethane	ND		0.5
1,1-Dichloroethane	ND		0.5	cis-1,2-Dichloroethene	1.6		0.5
1,1-Dichloroethene	ND		0.5	cis-1,3-Dichloropropene	ND		0.5
1,1-Dichloropropene	ND		0.5	Dibromochloromethane	ND		0.5
1,2,3-Trichlorobenzene	ND		0.5	Dibromomethane	ND		0.5
1,2,3-Trichloropropane	ND		0.5	Dichlorodifluoromethane	ND		0.5
1,2,4-Trichlorobenzene	ND		0.5	Ethylbenzene	ND		0.5
1,2,4-Trimethylbenzene	ND		0.5	Hexachlorobutadiene	ND		0.5
1,2-Dibromo-3-chloropropane	ND		0.5	Isopropylbenzene	ND		0.5
1,2-Dibromoethane (EDB)	ND		0.5	Methylene chloride	ND		0.5
1,2-Dichlorobenzene	ND		0.5	Methyl-tert-butyl ether	0.95		0.5
1,2-Dichloroethane	ND		0.5	Naphthalene	ND		0.5
1,2-Dichloropropane	ND		0.5	n-Butylbenzene	ND		0.5
1,3,5-Trimethylbenzene	ND		0.5	n-Propylbenzene	ND		0.5
1,3-Dichlorobenzene	ND		0.5	p-Isopropyltoluene	ND		0.5
1,3-Dichloropropane	ND		0.5	sec-Butylbenzene	ND		0.5
1,4-Dichlorobenzene	0.50		0.5	Styrene	ND		0.5
1,4-Dioxane	ND		500	tert-Butylbenzene	ND		0.5
2,2-Dichloropropane	ND		0.5	Tetrachloroethene	ND		0.5
2-Butanone	ND		5.0	Toluene	ND		0.5
2-Chlorotoluene	ND		0.5	Total xylenes	ND		0.5
2-Hexanone	ND		5.0	trans-1,2-Dichloroethene	ND		0.5
4-Chlorotoluene	ND		0.5	trans-1,3-Dichloropropene	ND		0.5
4-Methyl-2-pentanone	ND		5.0	Trichloroethene	ND		0.5
Acetone	ND		5.0	Trichlorofluoromethane	ND		0.5
Benzene	1.0		0.5	Vinyl chloride	ND		0.5
Bromobenzene	ND		0.5				
Bromochloromethane	ND		0.5				
Bromodichloromethane	ND		0.5				
Bromoform	ND		0.5				
Bromomethane	ND		0.5				
Carbon tetrachloride	ND		0.5				

Attached please find the laboratory certified parameter list.

ND = None Detected

RL = Reporting Limit

MCL = Maximum Contaminant Level

Approved By: 
(Lab Director) 9/18/2017



CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory (M-MA009)

Recipient: Lisa Flynn, Re: Landfill
Environmental Strategies & Management, Inc.
273 West Main Street
Norton, MA 02766

Order#: G1376990

Lab ID: 1376990-03

Sample #:

Method: 8260B

Comment:

Matrix: Water - Monitoring Well

Sampled: 09/05/2013 10:30

Received: 09/05/2013 13:15

Collection Address: BCH #13

Sample Location:

Description: Landfill

Date Analyzed: 9/5/2013 @ 9:57

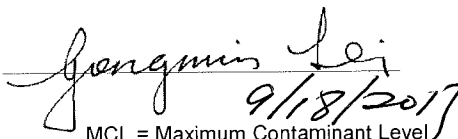
Analyst: yn

Dilution Factor: 1

EPA 8260 - Volatile Organics by GC/MS + Ketones +

Parameter	Result ug/L	MCL ug/L	MDL ug/L	Parameter	Result ug/L	MCL ug/L	MDL ug/L
1,1,1,2-Tetrachloroethane	ND		0.5	Chlorobenzene	1.6		0.5
1,1,1-Trichloroethane	ND		0.5	Chloroethane	ND		0.5
1,1,2,2-Tetrachloroethane	ND		0.5	Chloroform	ND		0.5
1,1,2-Trichloroethane	ND		0.5	Chloromethane	ND		0.5
1,1-Dichloroethane	ND		0.5	cis-1,2-Dichloroethene	1.6		0.5
1,1-Dichloroethene	ND		0.5	cis-1,3-Dichloropropene	ND		0.5
1,1-Dichloropropene	ND		0.5	Dibromochloromethane	ND		0.5
1,2,3-Trichlorobenzene	ND		0.5	Dibromomethane	ND		0.5
1,2,3-Trichloropropane	ND		0.5	Dichlorodifluoromethane	ND		0.5
1,2,4-Trichlorobenzene	ND		0.5	Ethylbenzene	ND		0.5
1,2,4-Trimethylbenzene	ND		0.5	Hexachlorobutadiene	ND		0.5
1,2-Dibromo-3-chloropropane	ND		0.5	Isopropylbenzene	ND		0.5
1,2-Dibromoethane (EDB)	ND		0.5	Methylene chloride	ND		0.5
1,2-Dichlorobenzene	ND		0.5	Methyl-tert-butyl ether	1.1		0.5
1,2-Dichloroethane	ND		0.5	Naphthalene	ND		0.5
1,2-Dichloropropane	ND		0.5	n-Butylbenzene	ND		0.5
1,3,5-Trimethylbenzene	ND		0.5	n-Propylbenzene	ND		0.5
1,3-Dichlorobenzene	ND		0.5	p-Isopropyltoluene	ND		0.5
1,3-Dichloropropane	ND		0.5	sec-Butylbenzene	ND		0.5
1,4-Dichlorobenzene	0.50		0.5	Styrene	ND		0.5
1,4-Dioxane	ND		500	tert-Butylbenzene	ND		0.5
2,2-Dichloropropane	ND		0.5	Tetrachloroethene	ND		0.5
2-Butanone	ND		5.0	Toluene	ND		0.5
2-Chlorotoluene	ND		0.5	Total xylenes	ND		0.5
2-Hexanone	ND		5.0	trans-1,2-Dichloroethene	ND		0.5
4-Chlorotoluene	ND		0.5	trans-1,3-Dichloropropene	ND		0.5
4-Methyl-2-pentanone	ND		5.0	Trichloroethene	ND		0.5
Acetone	ND		5.0	Trichlorofluoromethane	ND		0.5
Benzene	1.0		0.5	Vinyl chloride	ND		0.5
Bromobenzene	ND		0.5				
Bromochloromethane	ND		0.5				
Bromodichloromethane	ND		0.5				
Bromoform	ND		0.5				
Bromomethane	ND		0.5				
Carbon tetrachloride	ND		0.5				

Attached please find the laboratory certified parameter list.

Approved By: 
(Lab Director)

ND = None Detected

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605

Page 3 of 4



CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory (M-MA009)

Recipient: Lisa Flynn, Re: Landfill
Environmental Strategies & Management, Inc.
273 West Main Street
Norton, MA 02766

Order#: G1376990
Lab ID: 1376990-04
Sample #:
Method: 8260B
Comment:

Matrix: Water - Monitoring Well
Sampled: 09/05/2013 9:00
Received: 09/05/2013 13:15
Collection Address: TRIP BLANK
Sample Location:
Description: Landfill
Date Analyzed: 9/5/2013 @ 9:57
Analyst: yn
Dilution Factor: 1

EPA 8260 - Volatile Organics by GC/MS + Ketones +

Parameter	Result ug/L	MCL ug/L	MDL ug/L	Parameter	Result ug/L	MCL ug/L	MDL ug/L
1,1,1,2-Tetrachloroethane	ND		0.5	Chlorobenzene	ND		0.5
1,1,1-Trichloroethane	ND		0.5	Chloroethane	ND		0.5
1,1,2,2-Tetrachloroethane	ND		0.5	Chloroform	ND		0.5
1,1,2-Trichloroethane	ND		0.5	Chloromethane	ND		0.5
1,1-Dichloroethane	ND		0.5	cis-1,2-Dichloroethene	ND		0.5
1,1-Dichloroethene	ND		0.5	cis-1,3-Dichloropropene	ND		0.5
1,1-Dichloropropene	ND		0.5	Dibromochloromethane	ND		0.5
1,2,3-Trichlorobenzene	ND		0.5	Dibromomethane	ND		0.5
1,2,3-Trichloropropane	ND		0.5	Dichlorodifluoromethane	ND		0.5
1,2,4-Trichlorobenzene	ND		0.5	Ethylbenzene	ND		0.5
1,2,4-Trimethylbenzene	ND		0.5	Hexachlorobutadiene	ND		0.5
1,2-Dibromo-3-chloropropane	ND		0.5	Isopropylbenzene	ND		0.5
1,2-Dibromoethane (EDB)	ND		0.5	Methylene chloride	ND		0.5
1,2-Dichlorobenzene	ND		0.5	Methyl-tert-butyl ether	ND		0.5
1,2-Dichloroethane	ND		0.5	Naphthalene	ND		0.5
1,2-Dichloropropane	ND		0.5	n-Butylbenzene	ND		0.5
1,3,5-Trimethylbenzene	ND		0.5	n-Propylbenzene	ND		0.5
1,3-Dichlorobenzene	ND		0.5	p-Isopropyltoluene	ND		0.5
1,3-Dichloropropane	ND		0.5	sec-Butylbenzene	ND		0.5
1,4-Dichlorobenzene	ND		0.5	Styrene	ND		0.5
1,4-Dioxane	ND		500	tert-Butylbenzene	ND		0.5
2,2-Dichloropropane	ND		0.5	Tetrachloroethene	ND		0.5
2-Butanone	ND		5.0	Toluene	ND		0.5
2-Chlorotoluene	ND		0.5	Total xylenes	ND		0.5
2-Hexanone	ND		5.0	trans-1,2-Dichloroethene	ND		0.5
4-Chlorotoluene	ND		0.5	trans-1,3-Dichloropropene	ND		0.5
4-Methyl-2-pentanone	ND		5.0	Trichloroethene	ND		0.5
Acetone	15		5.0	Trichlorofluoromethane	ND		0.5
Benzene	ND		0.5	Vinyl chloride	ND		0.5
Bromobenzene	ND		0.5				
Bromochloromethane	ND		0.5				
Bromodichloromethane	ND		0.5				
Bromoform	ND		0.5				
Bromomethane	ND		0.5				
Carbon tetrachloride	ND		0.5				

Attached please find the laboratory certified parameter list.

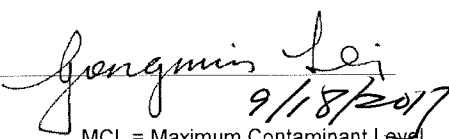
ND = None Detected

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605

Page 4 of 4

Approved By: 
(Lab Director)

Barnstable County Department of
Health and the Environment

Superior Court House
P. O. Box 427
Barnstable, MA 02630
(508) 375-6605; 6612

76990-0102

pg 1072

CHAIN OF CUSTODY

CLIENT NAME:

Eastham LF

ADDRESS:

Report to Lynn

PROJECT NAME:

PROJECT NUMBER:

PROJECT SITE:

SAMPLER:

LK Mulkeen

DATE/ TIME:	SAMPLE NUMBER	SAMPLE LOCATION	NO. OF SAMPLES	ANALYSES REQUIRED	COMMENTS
1 9/5/13 1030	900 ✓	mw 3I	1	NITRAU TDS SO ₄ Cl ⁻	env 9/6
	901 ✓		↓	Fe Mn Cu Pb Zn Cd Cr As Ag Se Ba	FRUIT
	902 ✓		↓	COD	env 9/16
	903, 904, 905 ✓		3	8260+ Ketone	
	906 ✓		1	TCN	TO PRELIM
	907 ✓		↓	Hg	FRUIT
2	908 ✓	mw 3D		NITRAU TDS SO ₄ Cl ⁻	
	909 ✓		↓	Fe Mn Cu Pb Zn Cd Cr As Ag Se Ba	FRUIT
	910 ✓		↓	COD	
	911, 912, 913 ✓		3	8260+ Ketone	
	914 ✓		↓	TCN	TO PRELIM
	915 ✓		↓	Hg	FRUIT

RELINQUISHED BY: DATE/TIME: RECEIVED BY: DATE/TIME:

LK Mulkeen 9/5/13

E L Hughes 9-13/13

RELINQUISHED BY: DATE/TIME:

RECEIVED BY:

DATE/TIME:

REC (3) 500 mL - ICE
(6) 250 mL - W/HNO₃
(3) 60 mL W/H₂SO₄
(3) 200 mL W/NaOH
4(3) 40 mL W/HCl
AMBER GLASS

**Barnstable County Department of
Health and the Environment**

Superior Court House
P. O. Box 427
Barnstable, MA 02630
(508) 375-6605; 6612

76990 (03-04)

pg 2 of 2

CHAIN OF CUSTODY

CLIENT NAME:

Eastham LF

ADDRESS:

Report to Lynn

PROJECT NAME:

PROJECT NUMBER:

PROJECT SITE:

SAMPLER:

LKM

DATE/ TIME:	SAMPLE NUMBER	SAMPLE LOCATION	NO. OF SAMPLES	ANALYSES REQUIRED	COMMENTS
3 9/5/13 1030	916 ✓	BCH #13	1	NITRATE-TDS SO ₄ CO ₂	
↓	917 ✓	↓	↓	Fem Cu Pb Zn Cd Cr As Ag Se Ba	FRUIT
↓	918 ✓	↓	↓	COD	
↓	919, 920, 921 ✓	↓	3	8260 Ketones	
↓	922 ✓	↓	1	TEN	TOPRCM
↓	923 ✓	↓	↓	Hg	FRUIT
4 900	East 1, 2, 3 ✓	TRIP BLANK	3	8260 Ketones	

RELINGUISHED BY: DATE/TIME: RECEIVED BY: DATE/TIME:

A. M. Miller 9/5/13 E. J. Hughes 9-5-13 13:15

RELINGUISHED BY: DATE/TIME: RECEIVED BY: DATE/TIME:

12
1/2
9/18



Barnstable County Health Laboratory

ANALYTICAL REPORT FOR Environmental Strategies & Management

Report Prepared for:

Environmental Strategies & Management
L. Flynn
273 W. Main St.
Norton, MA 02766

Order #: G1376817
No. of Samples: 2
Date Received: 08/28/2013



CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory (M-MA009)

Page: 1 of 1

Report Prepared For:

Report Dated: 8/30/2013

L. Flynn

Environmental Strategies & Management

273 W. Main St.

Norton, MA 02766

Order No.: G1376817

Laboratory ID #: 1376817-01

Description: Water - Drinking Water

Sample #:

Sample Location: 100 Meetinghouse Road

Collected: 08/27/2013

Collected by: Customer

Received: 08/28/2013

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>METHOD #</u>	<u>TESTED</u>
Arsenic, Total	ND	mg/L	0.0030	0.010	EPA 6020A	8/29/2013

Laboratory ID #: 1376817-02

Description: Water - Drinking Water

Sample #:

Sample Location: 180 Old Orchard Road

Collected: 08/28/2013

Collected by: Customer

Received: 08/28/2013

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>METHOD #</u>	<u>TESTED</u>
Arsenic, Total	ND	mg/L	0.0030	0.010	EPA 6020A	8/29/2013

Attached please find the laboratory certified parameter list.

Approved By:
(Lab Director)

Jiangmin Lei
9/5/2013

ND = None Detected

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, P.O. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CHAIN OF CUSTODY

2017

ADULTS ONLY

BARNSTABLE COUNTY DEPARTMENT OF HEALTH & ENVIRONMENT
WATER QUALITY LABORATORY

3195 Main Street/PO Box 427, Barnstable, MA 02630
Phone: 508-375-6605; Fax: 508-362-7103

REPORT GOES TO

BILLING INFORMATION

INFORMATION FOR MA DEP

CUSTOMER: <i>Environmental Strategies & Management</i>	BILL TO: <i>SAME</i>	PWS ID:
ADDRESS: <i>273 W. Main St.</i>	ADDRESS:	PWS NAME:
<i>Newton, MA, 02766</i>		PWS CLASS:
ATTENTION <i>Eastham Landfill</i>	ATTENTION	TURN-AROUND TIME
E-MAIL: <i>LFlynn@esm-inc.com</i>	E-MAIL:	STANDARD: ☒ RUSH: ☐
PHONE: <i>508-226-1800</i> FAX:	PHONE: FAX:	FAX: ☐ E-MAIL: ☒ HARDCOPY: ☐

[illegible]¹ Routine includes pH, Nitrate, Total Coliform, Sodium, Copper, Iron, Conductance.

³ Container Type: P = Plastics; CG = Clear Glass; AG = Amber Glass; GV = Glass Vial

² Routine+VOC is also called as "Restate Kit". VOC=Volatile Organic Compounds

⁴ T = Na₂S₂O₃; S = Sterile; N = NaOH



**BARNSTABLE COUNTY
DEPARTMENT OF HEALTH AND ENVIRONMENT
WATER QUALITY LABORATORY DIVISION**

BARNSTABLE SUPERIOR COURT HOUSE
3195 MAIN STREET - P.O. BOX 427
BARNSTABLE, MASSACHUSETTS 02630

RECEIVED AUG 19 2013

DB✓

Gongmin Lei
Laboratory Director
Direct Line: (508) 375-6606
Email: gmlei@cape.com

Main Line: (508) 375-6605
FAX (508) 362-7103
TDD (508) 362-5885

August 9, 2013

Mr. David Bennett
Bennett Environmental Associates, Inc.
1573 Main Street/P. O. Box 1743
Brewster, MA 02631

LABORATORY REPORT

Project: Eastham Landfill/Monitoring Well/BEA11-10104
Lab ID: G1375869
Received: 7/31/2013

Dear Dave:

Enclosed are the analytical results for the above referenced project. This letter authorizes the release of the analytical results, and should be considered a part of this report.

This report contains the following sections:

1. Sample Receipt Report;
2. Data Certification;
3. Inorganic Analytical Results;
4. Project Narrative;
5. Chain of Custody;
6. Certification and Approval by MA DEP.

The analytical results contained in this report meet all applicable US EPA method requirements and/or Quality Assurance and Quality Control Requirements for SW-846 Methods for the Massachusetts Contingency Plan and other methods requirements, except as may be specifically noted, or described in the project narratives.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions regarding this report, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Gongmin Lei", followed by a period.

Gongmin Lei

GMLEI@BARNSTABLECOUNTY.ORG



Barnstable County Health Laboratory

ANALYTICAL REPORT FOR

Bennett Environmental Associates, Inc.

Report Prepared for:

Bennett Environmental Associates, Inc
David Bennett
1573 Main Street, P O Box 1743
Brewster, MA 02631

Order #: G1375869

No. of Samples: 1

Date Received: 7/31/2013

BARNSTABLE COUNTY LABORATORY

Sample Receipt Report

Project: Landfill_Monitoring Well	Delivery: JTW
Client: Town of Eastham	Chain of Custody: Present
Lab ID: G1375869	Lab Receipt: 7/31/2013

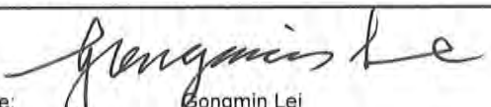
Lab ID	Field ID	Matrix	Sampled	Method	Container	Preserv	Comment
75869-01	155 Meetinghouse (RES-6)	Aqueous	7/31/2013 13:50:00 PM	EPA 6020A	250 mL Plastic	HNO3	

BARNSTABLE COUNTY LABORATORY

Data Certification

Project: Landfill
Client: Town of Eastham

Lab ID: G1375869
Received: 7/31/2013

MA DEP Compendium of Analytical Methods					
Project Location: Landfill			MA DEP RTN: ¹		
This Form provides certification for the following data set: EPA SW-846 Method 8260B: G1375869-01.					
Sample Matrices:	Groundwater (X)	Soil/Sediment ()	Drinking Water ()	Other ()	
MCP SW-846	8260B/524.2 ()	8151A ()	8330 ()	6010B ()	7470A/1A ()
Methods Used	8270C ()	8081A ()	VPH ()	6020A (X)	9012A ²
As specified in MA DEP Compendium of Analytical Methods.	8082 ()	8021B ()	EPH ()	7000 S ³	Other ()
(check all that apply) 1. List Release Tracking Number (RTN), if know. 2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method. 3. S - SW-846 Methods 7000 Series. List individual method and analyte.					
An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty" status.					
A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for that data set?			Yes	✓
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?			Yes	✓
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MA DEP document CAM VII A, <i>Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical data</i> ?			Yes	✓
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?			NA	
A response to questions E and F below is required for "Presumptive Certainty" status.					
E.	Were all QC performance standards and recommendations for the specified methods achieved?			Yes	✓
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?			Yes	✓
All No answers are addressed in the attached Project Narrative					
I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.					
Signature: 		Position: Laboratory Director			
Printed name: Gongmin Lei		Date: 8/9/2013			



CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory (M-MA009)

Page: 1 of 1

Report Prepared For:

Report Dated: 8/5/2013

David Bennett

Bennett Environmental Associates, Inc

1573 Main Street, P O Box 1743

Brewster, MA 02631

Order No.: G1375869

Laboratory ID #: 1375869-01

Description: Water - Drinking Water

Sample #:

Sample Location: 155 Meetinghouse (RES-6)

Collected: 07/31/2013

Collected by: JTW

Received: 07/31/2013

Landfill Metals_Total

ITEM	RESULT	UNITS	RL	MCL	METHOD #	TESTED
Arsenic	ND	mg/L	0.0030	0.01	EPA 6020A	8/5/2013
Barium	0.025	mg/L	0.0030	2.0	EPA 6020A	8/5/2013
Cadmium	ND	mg/L	0.0030	0.005	EPA 6020A	8/5/2013
Chromium	ND	mg/L	0.0030	0.1	EPA 6020A	8/5/2013
Copper	0.097	mg/L	0.0030		EPA 6020A	8/5/2013
Lead	0.017	mg/L	0.0030	0.015	EPA 6020A	8/5/2013
Mercury	ND	mg/L	0.00030	0.002	EPA 6020A	8/5/2013
Selenium	ND	mg/L	0.015	0.05	EPA 6020A	8/5/2013
Silver	ND	mg/L	0.0030		EPA 6020A	8/5/2013
Zinc	0.076	mg/L	0.060		EPA 6020A	8/5/2013

Attached please find the laboratory certified parameter list.

Approved By:
(Lab Director)

Jongmin Lei

8/5/2013

ND = None Detected

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605

004

BARNSTABLE COUNTY LABORATORY

Project Narrative

Project: Landfill
Client: Town of Eastham

Lab ID: G1375869
Received: 7/31/2013

1. Documentation and Client Communication

A: No documentation discrepancies, changes, or amendments were noted.

2. Method Modifications, Non-Conformances and Observations

A: No documentation discrepancies, changes, or amendments were noted.

3. Laboratories Which Performed Analyses

EPA 6020A	Barnstable County Laboratory

Barnstable County Department of
Health and the Environment

Superior Court House
P. O. Box 427
Barnstable, MA 02630
(508) 375-6605;6612

75869-01

pg 1 of 1

CHAIN OF CUSTODY

CLIENT NAME: Bennett Environmental Associates, Inc.
ADDRESS: 1573 Main St. / P.O. Box 1743
Brewster, MA 02631
PROJECT NAME: T.O. Eastham PROJECT NUMBER: BEA11-10104
PROJECT SITE: Eastham Landfill SAMPLER: JTW

DATE/ TIME:	SAMPLE NUMBER	SAMPLE LOCATION	NO. OF SAMPLES	ANALYSES REQUIRED	COMMENTS
7/31/13 1:54pm		155 Meetinghouse (RES-6)	1	As, Ba, Cd, Cr, Cu Pb, Hg, Se, Ag, Zn	(DM)

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
<i>[Signature]</i>	7/31/13 2:15	<i>[Signature]</i>	7/31/13 1415
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
<i>[Signature]</i>	7/31/13 1515	<i>[Signature]</i>	7-31-13 1515

Rec (1) 250 mL w/HNO3

Res 6 mL 7-31-13
Sample stays here

The Commonwealth of Massachusetts



Department of Environmental Protection

Division of Environmental Analysis

Senator William X. Wall Experiment Station

certifies

M-MA009

BARNSTABLE COUNTY HEALTH & ENV DEPT
3195 MAIN ST
RTE 6A, SUPERIOR CT HOUSE
BARNSTABLE, MA 02630-0000

Laboratory Director: GONGMIN LEI

for the analysis of

NON POTABLE WATER
(MICROBIOLOGY)
POTABLE WATER (MICROBIOLOGY)
POTABLE WATER (CHEMISTRY)
NON POTABLE WATER (CHEMISTRY)

pursuant to 310 CMR 42.00

This certificate supersedes all previous Massachusetts certificates issued to this laboratory. The laboratory is regulated by and shall be responsible for being in compliance with Massachusetts regulations at 310 CMR 42.00.

This certificate is valid only when accompanied by the latest dated Certified Parameter List as issued by the Massachusetts D.E.P. Contact the Division of Environmental Analysis to verify the current certification status of the laboratory.

Certification is no guarantee of the validity of the data. This certification is subject to unannounced laboratory inspections.

A handwritten signature in cursive script, reading "Oscar C. Jacinto".

Director, Division of Environmental Analysis

Issued: 01 JUL 2013

Expires: 30 JUN 2014

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of: 01 JUL 2013

M-MA009 BARNSTABLE COUNTY HEALTH & ENV DEPT
BARNSTABLE MA

NON POTABLE WATER (CHEMISTRY) Effective Date 01 JUL 2013 Expiration Date 30 JUN 2014

<u>Analytes</u>	<u>Methods</u>
ALUMINUM	EPA 200.8
ANTIMONY	EPA 200.8
ARSENIC	EPA 200.8
BERYLLIUM	EPA 200.8
CADMIUM	EPA 200.8
CHROMIUM	EPA 200.8
COBALT	EPA 200.8
COPPER	SM 3111B
COPPER	EPA 200.8
IRON	SM 3111B
LEAD	EPA 200.8
MANGANESE	SM 3111B
MANGANESE	EPA 200.8
NICKEL	SM 3111B
NICKEL	EPA 200.8
SELENIUM	EPA 200.8
SILVER	EPA 200.8
THALLIUM	EPA 200.8
VANADIUM	EPA 200.8
ZINC	SM 3111B
ZINC	EPA 200.8
PH	SM 4500-H-B
SPECIFIC CONDUCTIVITY	EPA 120.1
SPECIFIC CONDUCTIVITY	SM 2510B
TOTAL DISSOLVED SOLIDS	SM 2540C
HARDNESS (CaCO3), TOTAL	SM 2340B
CALCIUM	SM 3111B
MAGNESIUM	SM 3111B
SODIUM	SM 3111B
POTASSIUM	SM 3111B
ALKALINITY, TOTAL	SM 2320B
CHLORIDE	EPA 300.0
SULFATE	EPA 300.0
NITRATE-N	EPA 300.0
CHEMICAL OXYGEN DEMAND	HACH METHOD 8000
BIOCHEMICAL OXYGEN DEMAND	SM 5210B
TOTAL ORGANIC CARBON	SM 5310B
NON-FILTERABLE RESIDUE	SM 2540D
VOLATILE HALOCARBONS	EPA 624
VOLATILE AROMATICS	EPA 624

POTABLE WATER (CHEMISTRY) Effective Date 01 JUL 2013 Expiration Date 30 JUN 2014

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of: 01 JUL 2013

M-MA009 BARNSTABLE COUNTY HEALTH & ENV DEPT
BARNSTABLE MA

POTABLE WATER (CHEMISTRY)	Effective Date	01 JUL 2013	Expiration Date	30 JUN 2014
<u>Analytes</u>			<u>Methods</u>	
ANTIMONY			EPA 200.8	
ARSENIC			EPA 200.8	
BARIUM			EPA 200.8	
BERYLLIUM			EPA 200.8	
CADMIUM			EPA 200.8	
CHROMIUM			EPA 200.8	
COPPER			EPA 200.8	
COPPER			SM 3111B	
LEAD			EPA 200.8	
MERCURY			EPA 200.8	
NICKEL			EPA 200.8	
SELENIUM			EPA 200.8	
SILVER			EPA 200.8	
THALLIUM			EPA 200.8	
NITRATE-N			EPA 300.0	
NITRITE-N			EPA 300.0	
FLUORIDE			EPA 300.0	
SODIUM			SM 3111B	
SULFATE			EPA 300.0	
TURBIDITY			EPA 180.1	
CALCIUM			SM 3111B	
ALKALINITY, TOTAL			SM 2320B	
TOTAL DISSOLVED SOLIDS			SM 2540C	
PH			SM 4500-H-B	
TRIHALOMETHANES			EPA 524.2	
VOLATILE ORGANIC COMPOUNDS			EPA 524.2	
1,2-DIBROMOETHANE			EPA 504.1	
1,2-DIBROMO-3-CHLOROPROPANE			EPA 504.1	
PERCHLORATE			EPA 314.0	



September 30, 2013

Town of Eastham Board of Health
2500 State Highway
Eastham, MA 02642-2544

Eastham Board of Selectmen
Eastham Town Hall
2500 State Highway
Eastham MA 02643-2544

Board of Health
Eastham Town Hall
2500 State Highway
Eastham MA 02643-2544

Subject: Immediate Response Action Status Report, Plan Modification, and Remedial
Monitoring Report
Town of Eastham Landfill
255 Old Orchard Road, Eastham MA
RTN 4-24301

As required by the Massachusetts Contingency Plan (MCP), notice is hereby given that the above referenced document has been submitted electronically to the Massachusetts Department of Environmental Protection (MassDEP).

The objective of the Immediate Response Action program is to identify private water wells in the vicinity of the Eastham Landfill that have been impacted by 1,4 dioxane, and to provide alternative safe drinking water to affected residents. In addition, the IRA program includes implementation of appropriate and feasible mitigating measures to remove 1,4 dioxane and other VOCs related to the Eastham landfill from drinking water. This IRA Status report (and the incorporated Landfill Monitoring Plan report) discusses activities completed during the third quarter of 2013 (between mid-June and the end of August, 2013). The IRA Plan modification clarifies the monitoring schedule going forward and outlines activities that will be completed over the next three to six months (October 2013 to March 2014).

The submitted documents can be viewed on line or at the MassDEP Southeast regional office. For more information about these options, please visit
<http://www.mass.gov/eea/agencies/massdep/>

If you have any questions, please contact our office at 508-226-1800.

Sincerely,
Environmental Strategies & Management, Inc.

Douglas Heely, LSP

Copy: MassDEP Southeast Region