

Attachment 7

Correspondence Relating to Electrical Vaults (Manholes)

February 11, 2015

VIA E-MAIL AND CERTIFIED MAIL

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Re: Pilgrim Nuclear Power Station's National Pollutant Discharge Elimination System permit

Dear Messrs. Papadopoulos, Ferris and Ms. DeMeo,

Pilgrim Nuclear Power Station ("PNPS" or the "Station") operates subject to and with the benefit of a current, administratively continued National Pollutant Discharge Elimination System ("NPDES") permit, No. MA0003557, jointly issued by the United States Environmental Protection Agency ("EPA") and the Massachusetts Department of Environmental Protection ("MDEP"). *See, e.g.,* Correspondence from David M. Webster, EPA to Jacob Scheffer, Entergy, *re: Pilgrim Station's National Pollutant Discharge Elimination System (NPDES) Permit* (Oct. 25, 2004) (acknowledging PNPS's NPDES permit is administratively continued).¹

¹ EPA, MDEP and PNPS have worked diligently to maintain the current permit dynamic by ensuring that PNPS' submission of relevant NPDES information is up to date. Thus, for instance, PNPS has clarified aspects of its NPDES Permit application in application updates provided to EPA and MDEP. *See, e.g.,* Correspondence from E.T. Boulette, Boston Edison to Edward K. McSweeney, EPA, *re: NPDES Permit Renewal Application for Pilgrim Station* (Oct. 25, 1995) (hereinafter "PNPS 1995 Application"); Correspondence from J.F. Alexander, Entergy to Edward K. McSweeney, EPA, *re: NPDES Permit Renewal Application for Pilgrim Station* (USNRC ADAMS Accession No. ML993430072) (Dec. 1, 1999) (updating PNPS's prior Application). Likewise, PNPS has performed continuing environmental analysis, and provided multiple substantive updates to major aspects of its NPDES permit application file. *See, e.g.,* Correspondence from Elise N. Zoli, Counsel for Entergy to

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This correspondence respectfully addresses, for purposes of clarifying the historic record and responding to recent EPA questions in connection with renewal of PNPS's NPDES permit, the existing framework for stormwater discharges at the Station, with a focus on the scope of that coverage to include water collected in manholes that are part of the dewatering system for essential, thoroughly typical Station equipment and systems.

By way of roadmap for this correspondence, a brief Background section follows. Thereafter, in the Discussion section below, this correspondence outlines how our review has underscored that PNPS's permitting system for stormwater was developed and directed by EPA and MDEP in the mid-1990's as an interim measure, pending reissuance of PNPS's NPDES permit. Correspondence from Jane Downing, EPA to E.T. Boulette, Boston Edison (Mar. 1, 1996) (noting PNPS's NPDES Permit is expected to be renewed in 1998). The Discussion section also reflects EPA, MDEP's and PNPS's consistent efforts to address stormwater in an environmentally responsible manner, including one that comports with applicable Nuclear Regulatory Commission ("NRC") mandates and good industry practice for an important, regional baseload facility. Finally, and importantly, this correspondence suggests a reasonable and appropriate approach to what we understand is the imminent renewal of PNPS's NPDES permit.

Background

The PNPS site is approximately 1,800 acres, with the location of major structures, systems, components, equipment for the steam-electric generating Station consolidated on approximately 140 waterfront acres. *See, e.g., NRC, Generic Supplemental Environmental Impact Statement for License Renewal of Nuclear Plants: Regarding Pilgrim Nuclear Power Station, Supplement 29, 2-1 (July 2007), available at: <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1437/supplement29/v1/index.html>.* As with all steam-electric generating facilities, particularly large-scale baseload facilities such as PNPS, system components include the electric conduits that allow electricity to be delivered to the grid on a 24/7 basis, excepting scheduled maintenance outages – the very purpose of these facilities. *Id.* at 2-4. This equipment, to maintain its proper function, must be protected from salt spray, kept dry and, where rainfall infiltration creates a risk of arcing or comparable failures, dewatered. PNPS assures proper equipment function in many ways, including through the use of manholes designed to collect rainwater

Damien Houlihan, EPA, *re: Response to Information Request in support of NPDES Permit Reissuance* (July 1, 2008); Correspondence from Ruth Silman, Counsel for Entergy to George Papadopoulos, EPA (Aug. 18, 2014). EPA and MDEP's strides to issue a renewed NPDES permit nonetheless have been constrained by the state of flux of the federal Clean Water Act Section 316(b) regulations, which are the focus of PNPS' renewed NPDES permit. *See, e.g., EPA, Cooling Water Intakes – Rulemaking History, <http://water.epa.gov/lawsregs/lawsguidance/cwa/316b/rules.cfm>* (last visited Feb. 102, 2015) (providing history of 316(b) rulemaking starting with issuance of proposed rules for existing facilities in 2002); Correspondence from Jane Downing, EPA to E.T. Boulette, Boston Edison (Mar. 1, 1996) ("... the application is considered to be administratively and technically complete ... reissuance of the NPDES permit, however, will be delayed due to no fault of Boston Edison."). This dynamic, in connection with understandable departures of historic PNPS and agency personnel, *e.g., Nick Prodany*, over time supports our detailed historic review here. Indeed, we have appreciated the opportunity to painstakingly review our own files.

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and salt spray, removing it from the vicinity of Station equipment, including electric cables. These manholes have been in place since well before 1991.

Indeed, because of its location and a history of arcing at the switchyard that became an NRC focus in the early 1980's, PNPS has been vigilant about managing against the effects of sea and rainwater on electrical equipment. *See, e.g.,* NRC, *Information Notice 93-95: Storm-Related Loss of Offsite Power Events Due to Salt Buildup on Switchyard Insulators* (Dec. 13, 1995), available at: <http://www.nrc.gov/reading-rm/doc-collections/gen-comm/info-notice/1993/in93095.html> (hereinafter "NRC Information Notice") ("Since 1982, the Boston Edison Company Pilgrim station has also experienced several loss of offsite power events when *heavy ocean storms* deposited salt on the 345 kV switchyard causing the insulators to arc to ground.") (emphasis added); Enercon Services, Inc., *Enercon Response to Tetra Tech's Indian Point Closed-Cycle Cooling System Retrofit Evaluation Report*, prepared for Entergy Nuclear Indian Point 2, LLC, and Entergy Nuclear Indian Point 3, LLC (Dec. 2013), p. 28-29 ("Periodic salt deposition *during storm events* has caused electrical arcing at several plants," including PNPS), Figure 7-1 (providing picture of arcing) (excerpt enclosed) (emphasis added); NRC & EPRI, *EPRI/NRC-RES Fire PRA Methodology for Nuclear Power Facilities*, Final Report, NUREG/CR-6850 (Sept. 2005) (examining fires caused by, *inter alia*, arcing). PNPS's history of managing against the risks of storm damage includes the construction of manholes employed as rainwater (and theoretically flood) collection devices to dewater electric components and other systems.²

As detailed below, PNPS possesses all necessary authorizations for discharging dewatered manhole water through its stormwater discharge outfalls, and monitors and reports those discharges consistent with its authorizations and sound environmental stewardship.³

² EPA historically modified PNPS's administratively continued NPDES Permit, an effective way to keep the permit current. *See, e.g.,* NPDES Permit Clarification Letters (authorizing changes under PNPS NPDES Permit); EPA NPDES Permit No. MA0003557, (Aug. 30, 1994) (noting 1994 modification).

³ EPA also inquired as to whether PNPS would like to add specific tritium limits in its renewed NPDES permit. We respectfully submit that is not necessary at this time. PNPS's NPDES Permit does not regulate the discharge of radiological releases, *e.g.,* tritium. *See Train v. Colorado Public Interest Research Group, Inc.* 426 U.S. 1 (1976) ("We conclude, therefore, that the "pollutants" subject to regulation under the FWPCA do not include source, byproduct, and special nuclear materials, and that the EPA Administrator has acted in accordance with his statutory mandate in declining to regulate the discharge of such materials."). This is because NRC maintains primary responsibility for the regulation of radiological discharges from NRC-licensed facilities, *see id.*, including *by implementing EPA-derived standards*. *See, e.g.,* EPA, *EPA's Radiation Protection Standards* (Sept. 2013). Consistent with this federal regulatory program, PNPS monitors and reports on its radiological discharges consistent with NRC regulatory mandates, including "as low as reasonably achievable" or ALARA mandates, for radiological releases. *See, e.g.,* PNPS, *Annual Radioactive Effluent Report: January 1 through December 31, 2013* (May 14, 2014); NRC, *Generic Environmental Impact Statement for License Renewal of Nuclear Plants: Regarding Pilgrim Nuclear Power Station - Final Report, Supplement 47*, pp. 2-98 to 2-99 (July 2007), available at: <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1437/supplement29/v1/index.html> ("[PNPS] monitors the radiation and radioactivity released to the environment as a result of [its] operation. The results of measurements of radiological releases and environmental monitoring are summarized in two annual reports Limits for all radiological releases ... are designed to meet Federal standards"). That said, PNPS remains committed to full disclosure here. While PNPS's radiological effluent reports are publicly available, we also will provide copies to EPA routinely or upon request,

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Discussion of PNPS's Authorizations for Manhole Dewatering

Since at least 1991, PNPS has been authorized, subject to its NPDES-permit monitoring obligations, to discharge “stormwater runoff” and other discharges classified as stormwater to Cape Cod Bay through existing outfalls and a miscellaneous storm drain. Specifically, PNPS’s existing NPDES permit (as modified in 1994) includes various outfalls, specifically “004, 005, 006 and 007 yard drains,” with a variety of discharge limits and monitoring requirements. *See, e.g.*, EPA, NPDES Permit No. MA0003557 (Aug. 30, 1994) (modifying PNPS NPDES Permit) (hereinafter “PNPS NPDES Permit”). The NPDES Permit modification states that “[t]he discharge shall consist only of stormwater runoff,” with the definition of stormwater for PNPS including, for instance, process water, such as the discharge of demineralizer system and hydrogen injection system effluents through outfall 005. *See* PNPS NPDES at 12, Part A.7.i (“Yard Drain #005 may also accommodate demineralizer system and hydrogen injection system effluents ...”). Further, the Water Flow Diagram accompanying the NPDES permit reflects stormwater on a generic, site-wide basis going via these four “yard drains” to Cape Cod Bay. *See* PNPS NPDES at Attachment A.

Notably, the EPA attachment to the 1994 modification to PNPS’s NPDES permit includes newly issued September 1, 1993 “Part II” NPDES conditions which contain the operative definition of stormwater: “storm water runoff, snow melt runoff, and surface runoff and *drainage*.” *See* PNPS NPDES Permit at Part II, p. 22 (definition) (emphasis added); *see also* 40 C.F.R. § 122.26(b) (13) (employing the same definition). “Runoff” is defined as “*rainwater, leachate, or other liquid that drains overland on any part of a land surface and runs off the land surface.*” *See* PNPS NPDES Permit at Part II, p. 30 (emphasis added). The NPDES Permit requires monitoring of these stormwater discharges on a twice yearly basis during significant storm events, an important acknowledgement that runoff varies with storm events. *See* PNPS NPDES Permit at 12. Thus, and in sum, PNPS’s NPDES permit expressly contemplates the discharge of rainwater, whether as “drainage” or “leachate” from the surface, as well as the process waters that EPA and MDEP jointly authorized, be discharged as “stormwater” and other exempt discharges. Importantly, nothing in our files relating to PNPS’s NPDES permit suggests that authorized stormwater discharges were limited to a particular portion of the site, were authorized solely from enumerated sources or were subject to volumetric limitations. Likewise, nothing in our files suggests that EPA or MDEP considered stormwater to be other than as would be expected from a large-scale nuclear power plant, one at which dewatering of subsurface electric cables would be customary and expected.

Further, PNPS’s has historically monitored and reported its stormwater discharges consistent with its NPDES permit requirements. As EPA is aware, the PNPS NPDES Permit stormwater monitoring requirements (*see* PNPS NPDES Permit at p. 12) govern PNPS’ ability to collect monitoring samples on a regular basis. Specifically, the permit requires stormwater outfalls be monitored twice a year during

whichever option the agency prefers. *See, e.g.*, NRC, Radioactive Effluent and Environmental Reports for Pilgrim, <http://www.nrc.gov/reactors/operating/ops-experience/tritium/plant-specific-reports/pilg.html> (last visited Feb. 2, 2015) (providing PNPS’ radiological effluent reports for 2005-2013).

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the months of April and September, specifying monitoring by “grab sample ... within the first hour of the start of a significant storm event ... [from] some representative point prior to discharge into the receiving waters.” See PNPS NPDES Permit at p. 12, Parts A.7.g, and A.7.h. Samples are sometimes unavailable under these monitoring specifications for a variety of reasons, including: (1) a lack of flow from outfalls during the first hour of a significant storm event, which occurs with low rainfall at the beginning of a significant storm event; (2) occurrence of storm events outside of customary daylight hours when stormwater technicians are on site and reasonably could obtain grab samples (e.g., holidays or nights); and (3) industrial safety limitations on the collection of samples during nighttime hours and during more extreme storm events. By way of background on the last reason, monitoring of the stormwater discharges requires technicians to climb out onto riprap abutting the shoreline and collect samples in a glass container—a potentially dangerous task, particularly at night and during storm conditions. As a result and as reported in PNPS’ discharge monitoring reports (“DMRs”), Station personnel endeavor to proactively sample in non-applicable months (i.e., not April or September) when samples are unavailable in April or September and a significant storm event capable of being monitored occurs in proximity to those months. See, e.g., Correspondence from David E. Noyes, Entergy to EPA (Nov. 21, 2014) (providing discharge monitoring report, including results for significant storm event in October). These efforts underscore PNPS’s commitment to its NPDES permit and environmental stewardship.

In 1996, PNPS also obtained an authorization to discharge collected rainwater, among other things, under a general permit issued by EPA and independently confirmed by MDEP. See Correspondence from EPA to Boston Edison (Aug. 30, 1996) (authorizing discharges at PNPS under GP and attaching NOI).⁴ This is because, after discussing the matter at length with EPA and MDEP Staff, PNPS was asked to obtain, and in fact did obtain, an August 30, 1996 industrial stormwater general permit from EPA (the “1996 GP”), the use of which MDEP expressly approved by correspondence, dated August 30, 1996. *Id.*⁵ The 1996 GP was to commence when the NPDES Permit was renewed (presumptively, without stormwater discharge requirements). Specifically, PNPS’s October 25, 1995 Application cover letter includes a request that Outfalls 004, 005, 006 and 007, and the miscellaneous storm drain, be covered under the NPDES General Permit for Storm Water Discharges Associated with Industrial Activity (Permit No.

⁴ EPA administers the industrial storm water program, as it does the NPDES program, in Massachusetts. See, e.g., EPA, *Authorization Status for EPA’s Stormwater Construction and Industrial Programs*, <http://water.epa.gov/polwaste/npdes/stormwater/Authorization-Status-for-EPAs-Stormwater-Construction-and-Industrial-Programs.cfm> (last visited Jan. 28, 2015) (EPA list of states where program administered); see also Printer’s National Environmental Assistance Center, *Industrial Stormwater Permitting Guide, Lesson 2*, p. 1 (reviewed by EPA), <http://www.pneac.org/tormwater/l2p1.cfm> (last visited Jan. 28, 2015) (“These procedures apply if you are located within one of the states or territories who are NOT authorized to administer the NPDES permit program although similar procedures exist in most other areas where states ARE the NPDES permitting authority.”).

⁵ A review of PNPS’s 1995 NPDES-renewal application underscores that dewatering is authorized. See, e.g., PNPS 1995 Application (reflecting MDEP statement that stormwater could be authorized under the industrial General Permit, i.e., stormwater discharges are typical of industrial facility). The Application includes a clear diagram that site-wide stormwater goes to the four identified outfalls and requests the addition of the “miscellaneous storm drain” later specifically approved. See PNPS 1995 Application at Water Flow Diagram (7007A).

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MAR000000) upon expiration of the current NPDES permit (and presumptively the elimination of the individual stormwater requirements), adding MADEP “had formally determined that the storm water discharges at the facility can be covered under the General Permit” in a September 11, 1995 letter. PNPS 1995 Application at p. 2. MADEP’s September 11, 1995 correspondence, in fact, states: “The Department has determined that the stormwater discharges at the facility can be covered under the General Storm Water Permit (USEPA: 25 Sep 92).” PNPS 1995 Application at Attachment B. MADEP’s correspondence provides a further caveat reflecting its position that PNPS’s individual NPDES permit was more stringent: “The company should be reminded that the Department and USEPA can require an individual permit (with more restrictive conditions).” *Id.* In sum, the contemporaneous correspondence regarding the 1996 GP indicates that EPA and MADEP intended PNPS to employ the then-new GP system in lieu of individual NPDES stormwater requirements, when a new individual NPDES permit was issued, which EPA then expected to occur in 1998 – a date then within the original term of the GP. *See id.*; Correspondence from Jane Downing, EPA to E.T. Boulette, Boston Edison (Mar. 1, 1996) (noting PNPS NPDES Permit is expected to be renewed in 1998). At no time, however, did EPA or MADEP suggest that PNPS should retain the general permit approach when the 1998 projected deadline for issuance of the NPDES permit passed. Likewise, at no time did EPA or MADEP discuss with PNPS a continuing proposal to apply for later-issued multi-sector general permits (“MSGPs”), *i.e.*, in 1998, 2000 and 2008.

Instead, subsequent correspondence indicates that the EPA and MADEP reverted to the NPDES permit, which remained operative. For instance and most tellingly, in June 3, 1999 correspondence, EPA expressly authorized discharges from the “miscellaneous storm drain” under the NPDES Permit. *See* Correspondence from J. Alexander, Boston Edison to Nicholas Prodany, EPA (June 3, 1999) (hereinafter “PNPS 1999 NPDES Authorization”) (noting EPA authorized discharges, without monitoring requirement, from miscellaneous storm drain under NPDES permit) (countersigned). Specifically, EPA authorized discharges from this storm drain, while at the same time acknowledging that the drain “would be considered ... as part of permit renewal,” *i.e.*, NPDES-permit renewal. At no point in 1999 did EPA indicate that it instead wanted PNPS to continue with the new MSGP. *Id.* As a result, EPA’s and MADEP’s position appears to have been either to revert back to the NPDES permit upon termination of the 1996 GP or to continue that general permit until PNPS’s NPDES permit was renewed.⁶ This reversion to the NPDES permit as the operative stormwater permit is consistent with the approach in all subsequent discharge monitoring reports.

⁶ EPA’s continuation of PNPS’s GP is atypical, but consistent with EPA’s approach to the general permits nationally, which can be and routinely are administratively continued. *See, e.g.*, Printer’s National Environmental Assistance Center, *Industrial Stormwater Permitting Guide, Lesson 2*, p. 1 (reviewed by EPA), <http://www.pneac.org/stormwater/l2p1.cfm> (last visited Jan. 28, 2015) (“NPDES permits, such as the MSGP, are to be issued for no more than 5 years. At times, however, issues may arise that prevent EPA or a state from reissuing that permit until sometime after the 5 year period has elapsed. In certain circumstances, permittees may continue to be covered under those “administratively extended” permits until such time as a new permit is issued or reissued. For EPA’s MSGP, typically facilities that are covered under the permit remain covered until either coverage is terminated by the permittee or EPA or a new or reissued permit becomes available in which case the permittee is to follow the directions of that new permit. EPA regulations, however, do not allow the Agency to cover new

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Critically, the 1996 GP was specifically designed for, among other industrial categories, the electric-generating sector, and included a broad range of typical associated equipment, including foundation and footing drains (not containing process water), waterline flushing, fire hydrant flushings, firefighting activities, routine wash-downs and groundwater. *See, e.g., EPA, Final National Pollutant Discharge Elimination System Storm Water Multi-Sector General Permit for Industrial Activities*, 60 Fed. Reg. 50804, 50808, 50813 (Sept. 29, 1995) (hereinafter “the 1995 General Permit Notice”) (listing “Steam Electric Power Generating Facilities” as covered by permit); *see also EPA, Multi-Sector General Permit For Stormwater Discharges Associated With Industrial Activity (MSGP)*, 103 (2008) (hereinafter “Current MSGP”) (“This permit authorizes stormwater discharges from ... steam electric power generation using ... nuclear energy.”). In fact, EPA statements in the 1996 GP specifically contemplate the presence of manholes. *See e.g., 1995 General Permit Notice at 50816* (“EPA recognizes that certification may not be feasible where facility personnel do not have access to an outfall, manhole, or other point of access to the conduit that ultimately receives the discharge.”). Thus, there is nothing inherent in manholes or the trappings of a typical electric-generating station that can be considered a surprise under the stormwater program, as managed by EPA and MDEP in the 1990’s at PNPS. Certainly, EPA and MDEP understood that PNPS was the very sort of industrial facility, with its switchyard and electric equipment, that could be covered generically and summarily under the GP and in fact authorized the facility to discharge in that manner. *See, e.g., 1995 General Permit Notice at 50974-75, 51199* (acknowledging switchyards, etc., at covered facilities); PNPS, *Management Practices: Stormwater* (Sept. 1999), at Site Drawing (providing PNPS’ stormwater pollution prevent plan and illustrating switchyard and diesel generators).

PNPS’s NPDES Permit and GP demonstrate that EPA has never directed, nor required, the monitoring of individual manholes, and there has been no change at the facility that warrants individual monitoring now. Rather, EPA has consistently authorized – as stormwater – the discharge of collected rainwater, including rainwater that accumulates in manholes, subject to the quantitative and qualitative outfall monitoring that the NPDES Permit provides for.

In sum and respectfully, our review confirms that, since 1991, PNPS has had an existing NPDES permit authorizing stormwater discharges via specified outfalls (i.e., 004-007) of collected rainwater, including as that rainwater collects and is dewatered from on-site manholes. Thus, discharges to Outfalls 004-007 or the miscellaneous storm drain of rainwater, runoff, drainage or dewatering leachate collected in manholes, provided the discharge is monitored in compliance with the NPDES Permit is authorized. Further, from at least 1996, PNPS also has had the 1996 GP as an extra measure. On balance, this history reflects the longstanding efforts of EPA, MADEP and PNPS to maintain a state-of-the-art

facilities under an administratively extended general permit. In those instances, permittees should either apply for coverage under an individual permit (more detailed application forms and process), or if stated by EPA may follow the requirements described in the administratively extended general permit and rely on EPA’s enforcement discretion to not take action against facilities trying to comply. Facilities should be aware that this second option does not protect them from citizen suits, an option that is available under the NPDES program.”).

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stormwater management program that is protective of water resources and quality, pending renewal of PNPS's NPDES permit.

To continue this commitment into the future, we respectfully submit that PNPS stands willing to implement a stormwater monitoring program that is consistent with current MSGP standards, *e.g.*, requiring monitoring consistent with the MSGP, which is substantially the same as PNPS's current monitoring requirements for discharges from stormwater-related outfalls. *Compare* Current MSGP at Section 8.O.8 (monitoring requirements) and PNPS's NPDES permit at 12 (monitoring requirements). Doing so will also entail PNPS's updated, reasonable identification of internal stormwater sources in the new version of its stormwater pollution prevention plan. We look forward to meeting and discussing this approach at your convenience.

Sincerely,



Elise N. Zoli

Enclosure

cc:

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June 30, 2015

VIA E-MAIL
VIA FIRST CLASS MAIL

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Re: **Response to the United State Environmental Protection Agency's ("USEPA") March 24, 2015 Request for Information**

Mr. Papadopoulos,

On behalf of Entergy Nuclear Generating Company ("Entergy"), I write in response to the USEPA's March 24, 2015 request (as revised in its June 9, 2015 correspondence) for information regarding stormwater discharges from "electrical vaults"¹ located at the Pilgrim Nuclear Power Station ("PNPS") (the "Request"). See Correspondence from Ken Moraff, EPA to David E. Noyes, Entergy (Mar. 24, 2015); Correspondence from Ken Moraff, EPA to David E. Noyes, Entergy (June 9, 2015). As an initial matter, Entergy greatly appreciated the opportunity to meet with USEPA on May 13, 2015, to discuss the Request and USEPA's June 9, 2015 response revising the Request to acknowledge expected conditions at the PNPS site. As revised, the Request requested that Entergy:

1. "collect one sample of water from at least (7) seven different [manholes] on the [PNPS] property and have it analyzed for [twenty-six (26)] parameters" at a specified Minimum Level of Detection ("MLD"); and
2. "provide a map showing the general location of all [manholes] that can accumulate stormwater, specifying which specific [manholes] were sampled as well as the location

¹ PNPS categorizes these stormwater collection structures as manholes, not "electrical vaults;" therefore, this correspondence will refer to manholes, and not "electrical vaults."

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of the four (4) existing NPDES-permitted stormwater outfalls, designated serial numbers 004, 005, 006, and 007.”

Correspondence from Ken Moraff, EPA to David E. Noyes, Entergy, 3 (Mar. 24, 2015); *see also* Correspondence from Ken Moraff, EPA to David E. Noyes, Entergy (June 9, 2015).

In response to the Request, Entergy engaged Environmental Resources Management (“ERM”) to collect and analyze the manhole samples, and ERM contracted out the analysis to TestAmerica Laboratories, Inc. (“TestAmerica”). From June 9 to 12, 2015, ERM collected water samples from seven manholes at PNPS, specifically CP-1, CP-4, MH-2, MH-4, MH-5, MH-L and MH-Q, including a field duplicate from MH-Q. Importantly, in the calendar week prior to testing approximately 0.90 inches of rain fell in Plymouth, Massachusetts, and water was not pumped from manholes (unless automated) in order to facilitate testing.²

As a result, at the time of sampling, one manhole that did not possess automated pumping had cabling that was temporarily, partially submerged: MH-Q. The last review of MH-Q occurred on May 28, 2015, at which point the cabling was dry. MH-Q was immediately pumped after sampling.

As detailed in ERM’s report entitled *Summary of Manhole Sampling Activities* (“ERM Report”) (attached as Exhibit A), samples were collected from each manhole using a peristaltic pump with dedicated polyethylene/silicone tubing. Depth to water and depth to the bottom of the concrete base of each manhole were measured with a water level probe. The samples were collected in the appropriate laboratory glassware, held on ice, and shipped for analysis by TestAmerica to their laboratory in Amherst, New York. All samples were analyzed by TestAmerica for the twenty-six (26) parameters identified in USEPA’s June 9, 2015 letter; however, CP-4 was not analyzed for chromium III and VI due to missing the 24-hour holding time because of delay from onsite screening for tritium. The test methods used by TestAmerica to analyze each of the twenty-six (26) parameters are listed in Table 2 of the ERM Report.

Consistent with our prior discussions, ERM’s sampling and analytical results demonstrate that cabling within PNPS’s manholes is not typically submerged, and as a result stormwater pumped from these manholes contains only naturally occurring contaminants. Specifically, for all samples taken, only three (3) of the twenty-six (26) parameters were detected without qualification at or above the MLD specified in the Request (the “Detected Parameter(s)”). Results for the Detected Parameters are presented in Table 2 of the ERM Report, and provided below for illustrative purposes.

² See ERM, *Summary of Manhole Sampling Activities* 2-3 (June 30, 2015).

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| Samples with Parameters Above the Request's Minimum Level of Detection ("MLD") | | | | | | | | | | | |
|--|----------------|------------------------|-------------|-------|-------|--------|--------|--------|--------|-------|------------------|
| | Type of Sample | Analytical Method Used | USEPA's MLD | CP-1 | CP-4 | MH-2 | MH-4 | MH-5 | MH-L | MH-Q | MH-Q (Duplicate) |
| Iron (mg/L) | Grab | 200.7 | 0.02 | 0.396 | 1.150 | 0.977 | 1.600 | 0.115 | 0.0944 | 0.439 | 0.451 |
| Zinc (mg/L) | Grab | 200.7 | 0.015 | 0.534 | 0.223 | 0.0538 | 0.0776 | 0.0175 | 0.0271 | 1.520 | 1.540 |
| Copper (mg/L) | Grab | 200.7 | 0.015 | - | - | - | 0.0286 | - | - | - | - |

The Detected Parameters are naturally occurring metals (iron, zinc and copper), that are known to occur in Massachusetts's soils at the following natural background concentrations: iron—20,000 mg/kg; zinc—100 mg/kg; and copper—40 mg/kg.³ Indeed, the concentrations detected in PNPS' manholes are far below the natural soil concentrations.⁴ The ubiquitous detection of iron and zinc in all samples collected further indicates that these detections likely are a result of natural background concentrations. Accordingly, the presence of iron, zinc and copper in the manhole samples is consistent with the collection of stormwater that runs over land, as well as surface –level potential soil infiltration, into the manholes.

In addition to the Detected Parameters, TestAmerica detected total phenols in the MH-2 sample above the MLD; however, that detection was qualified because the sample fell outside acceptable matrix spike/matrix spike duplicate (MS/MSD) recovery limits, which is an element of the laboratory quality control program. The purpose of the MS/MSD is to document the accuracy and precision of the method for that specific sample. MS/MSD samples are representative, but randomly chosen client samples that have known concentrations of analytes of interest added to the samples prior to sample preparation and analysis. They are processed along with the same un-spiked sample. If the matrix spike recovery does not fall within the method acceptance criteria, it indicates the sample matrix is interfering with the analysis. Matrix interference typically is associated with complications caused by constituents in the sample itself. For this reason, the detection of total phenol in MH-2 above the MLD should be considered an estimate, not an accurate detection. See ERM Report at 2. Further, total phenols are not expected to occur at the PNPS site, are not contaminants typically found at comparable sites, and were

³ Massachusetts Department of Environmental Protection, *Technical Update: Background Levels of Polycyclic Aromatic Hydrocarbons and Metals in Soil* (May 23, 2002), available at: <http://www.mass.gov/eea/docs/dep/cleanup/laws/backtu.pdf>.

⁴ The sample results provided in the table above are comparable to the units provided for natural background concentrations because one (1) liter (L) of water equals one (1) kilogram (kg) of water.

George Papadopoulos

June 30, 2015

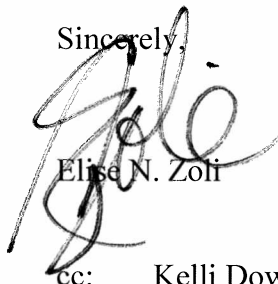
Page 4

not observed above MLD in the other manhole samples, including when cabling was partially submerged (i.e., MH-Q).

A map showing the general location of all manholes that can accumulate stormwater and the location of the four (4) existing NPDES-permitted stormwater outfalls (serial numbers 004, 005, 006, and 007) is provided as Exhibit B. Manholes that can accumulate stormwater were identified by their inclusion in PNPS's Cable Reliability Program, which, consistent with the Nuclear Regulatory Commission requirements, is designed to ensure cabling is not submerged. *See, e.g.*, Entergy, PowerPoint: Discussion Regarding PNPS Manholes, p. 7 (provided to USEPA on May 13, 2015).

Entergy would be happy to discuss the results provided herein with USEPA. If you have questions or would like to arrange a meeting to discuss the results please do not hesitate to call me at 617-570-1612.

Sincerely,

A handwritten signature in black ink, appearing to read 'Elise N. Zoli', is written over the printed name.

Elise N. Zoli

cc: Kelli Dowell, Esq.
Assistant General Counsel, Entergy

Joseph Egan,
Environmental Specialist, Entergy

Memorandum

**Environmental
Resources
Management**

One Beacon Street, 5th Floor
Boston, MA 02108
(617) 646-7800
(617) 267-6447 (fax)

<http://www.erm.com>

To: Pilgrim Nuclear Power Station

From: ERM Project Team

Date: 30 June 2015

Subject: Summary of Manhole Sampling Activities



On behalf of Entergy Nuclear Operations, Inc. (Entergy), Environmental Resources Management (ERM) has prepared this memorandum summarizing the results of manhole sampling at the Pilgrim Nuclear Power Station (PNPS) ("Site") located in Plymouth, Massachusetts (Figure 1).

PNPS is currently undergoing renewal of the station's National Pollutant Discharge Elimination System (NPDES) permit through the Environmental Protection Agency (EPA). As part of the permit renewal process, EPA has requested the collection of water samples from manholes, as several manholes receive rainwater and are pumped to permitted storm water drains in order to keep cables dry.

Purpose and Scope

The purpose of the sampling activities was to support PNPS with the collection and laboratory analysis of water samples from select manholes. The activities included collecting samples from seven manhole locations, and submitting them for analysis as prescribed by EPA permit renewal requirements (Appendix A). EPA's analytical requirements include specific Minimum Levels of detection (MLD) for each analysis. The MLD is associated with establishing the presence or absence of each analyte in a sample, but does not directly correlate to any specific regulatory standard.

Methodology

From 9 to 12 June 2015, ERM collected water samples from seven manholes at PNPS including locations CP-1, CP-4, MH-2, MH-4, MH-5, MH-L and MH-Q. For the purposes of this report, all CP and MH locations are collectively referred to as manholes. Manhole MH-K was originally targeted for sampling, but PNPS personnel reported that this manhole was dry. According the National Oceanic and Atmospheric Administration (NOAA) weather station located at the Plymouth Municipal Airport, approximately 0.90 inches of rain fell during the calendar week prior to the sampling.

PNPS personnel provided ERM with access to the manholes. Figure 2 shows the approximate locations of the manholes that were sampled. Depth to water and depth to the bottom of the concrete base of each manhole were measured with a water level probe. Samples were collected from each manhole using a peristaltic pump with dedicated polyethylene/silicone tubing. The samples were collected in the appropriate laboratory glassware, held on ice, and transferred to a courier from TestAmerica Laboratories, Inc. (TestAmerica), a certified commercial laboratory. Samples were shipped for analysis by TestAmerica to their laboratory in Amherst, New York. The analytical parameters for testing by the laboratory included 26 parameters identified in Appendix A as provided to ERM. A field duplicate was collected at MH-Q (DUP-1) and analyzed for all parameters. CP-4 was not analyzed for chromium III and VI due to missing the 24-hour holding time because of delay from onsite screening for tritium.

RESULTS

Depth to water and depth to the bottom of manhole measurement are included in Table 1. All manholes were sampled as planned, with the exception of MH-K, which was dry.

Sample results including laboratory qualifiers for manhole sampling are summarized in Table 2 and laboratory analytical reports are included in Appendix B. Laboratory qualifiers are also described in the Definitions/Glossary and are discussed within the Case Narratives of the individual laboratory reports. The Total Phenols result for MH-2 was qualified “F1” due to a failed matrix spike and/or matrix spike duplicate. As indicated in the case narrative, sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. Matrix interference typically is associated with complications caused by constituents in the sample itself and the sample result may be considered an estimate. In general, phenols are a group of industrial compounds that are used in the production of synthetic chemicals and would therefore not be expected at an operating nuclear power plant site.

Please contact us at 617-646-7800 if you have any questions or comments.

Sincerely,



Matthew Daly, P.G.
Principal-In-Charge



James Allen, P.G.
Senior Project Geologist



Joshua G. Klement
Project Geologist

Attachments:

Table 1: Manhole Gauging Observations

Table 2: Manhole Sampling Analytical Results

Figure 1: Site Locus Map

Figure 2: Manhole Sampling Locations

Appendix A: Summary of Monitoring Parameters

Appendix B: Laboratory Analytical Reports

Tables

Table 1
Summary of Manhole Gauging Data & Observations
Entergy
Pilgrim Nuclear Power Station
600 Rocky Hill Rd, Plymouth, MA

| Manhole Designation | Date/Time of Sample | Depth to Water (feet)* | Depth to Bottom (feet)* | Observations |
|---------------------|---------------------|------------------------|-------------------------|--|
| CP-1 | 6/9/15 13:20 | 7.45 | 8.1 | Sediment at base of manhole |
| CP-4 | 6/11/15 9:26 | 8.12 | 9.8 | Air bubbles flowing into manhole |
| MH-2 | 6/9/15 10:15 | 9.28 | 10.4 | No observations noted |
| MH-4 | 6/10/15 13:35 | 9.18 | 9.9 | No observations noted |
| MH-5 | 6/10/15 13:55 | 9.6 | 9.9 | Slight Sheen observed on surface of water in manhole |
| MH-K | 6/11/15 8:30 | Dry | Dry | Dry per PNPS personnel |
| MH-L | 6/12/15 13:10 | 8.75 | 9.0 | Sediment at base of manhole |
| MH-Q | 6/12/15 9:45 | 3.65 | 7.0 | Submerged cables noted |

Notes

*All measurements were taken from the top of the manhole rim

Table 2
Manhole Sampling Results
Pilgrim Nuclear Power Station
Plymouth, Massachusetts

| Parameter | Type of Sample (e.g., grab) | Analytical Method Used | EPA Required Minimum Level of Detection (MLD) | Units (µg/L or mg/L) | MH-2 6/9/2015 | MH-4 6/10/2015 | MH-5 6/10/2015 | MH-L 6/12/2015 | MH-Q 6/12/2015 | DUP-1 (MH-Q) 6/12/2015 | CP-1 6/9/2015 | CP-4 6/11/2015 |
|--|--------------------------------|---------------------------|---|-------------------------|------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|------------------|-------------------|
| 1. Total Suspended Solids (TSS) | Grab | 2540D | 5 | mg/L | < 4.0 | < 4.0 | 4.8 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | 4.4 |
| 2. Total Petroleum Hydrocarbons (TPH) | Grab | 1664A | 5.0 | mg/L | < 5.1 F1 | < 4.9 | < 5.0 | < 4.9 | < 4.9 | < 4.9 | < 5.1 | < 4.9 |
| 3. Cyanide | Grab | 335.4 | 10 | µg/L | < 10 | < 10 | < 10 | 5.3 J | < 10 | < 10 | < 10 | < 10 |
| 4. Benzene | Grab | 8260C | 2 | µg/L | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| 5. Toluene | Grab | 8260C | 2 | µg/L | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| 6. Ethylbenzene | Grab | 8260C | 2 | µg/L | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| 7a. (m,p) Xylenes | Grab | 8260C | 2 | µg/L | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 |
| 7b. o-Xylene | Grab | 8260C | 2 | µg/L | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| 7c. Total Xylenes | Grab | 8260C | 2 | µg/L | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 |
| 8. Total BTEX | Grab | 8260C | 2 | µg/L | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 |
| 9. Naphthalene | Grab | 8260C | 2 | µg/L | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| 10. Total Phenols | Grab | 420.4 | 50 | µg/L | 52.6 F1,** | < 10.0 | 6.9 J | 17.1 | < 10.0 | < 10.0 | 9.7 J | < 10.0 |
| 11. Total Phthalates (Phthalate esthers) | Grab | 8270C/D LL | 5 | µg/L | < 4.7* | 0.14 J* | < 4.7* | < 4.7 | 0.11 J | 0.12 J | < 4.8 | 0.11 F1, J |
| 12. Bis (2-Ethylhexyl) phthalate | Grab | 8270C/D LL | 5 | µg/L | < 4.7 | < 4.8 | < 4.7 | < 4.7 | < 4.7 | < 4.7 | < 4.8 | < 4.7 F1 |
| 13. Total Polychlorinated Biphenyls (PCBs) | Grab | 608 | 0.5 | µg/L | 0.23 | < 0.057 | < 0.063 | < 0.057 | < 0.056 | < 0.057 | < 0.056 | < 0.057 |
| 14. Antimony | Grab | 200.8 | 10 | µg/L | 2.5 | 0.30 J | 0.23 J | 0.51 J | 0.34 J | 0.33 J | 1.4 | 1.0 |
| 15. Arsenic | Grab | 200.7 | 20 | µg/L | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| 16. Cadmium | Grab | 200.7 | 10 | µg/L | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 1.6 | 2.1 |
| 17. Chromium III | Grab | 3500 | 15 | µg/L | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | NA |
| 18. Chromium VI | Grab | 3500 | 10 | µg/L | 8.6 J | < 10 | < 10 | < 10 F1 | < 10 | < 10 | < 10 | NA |
| 19. Copper | Grab | 200.7 | 15 | µg/L | 9.6 J | 28.6 | 3.6 J | 14.2 | 4.1 J | 4.6 J | 6.8 J | 10.7 |
| 20. Lead | Grab | 200.7 | 20 | µg/L | 13.0 | 8.3 | < 5.0 | 3.9 J | 15.4 | 15.9 | 9.6 | < 5.0 |
| 21. Mercury | Grab | 245.1 | 0.2 | µg/L | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 |
| 22. Nickel | Grab | 200.7 | 20 | µg/L | 2.5 J | 4.5 J | < 10.0 | 2.9 J, B | 3.4 J, B | 3.6 J, B | < 10.0 | 1.5 J, B |
| 23. Selenium | Grab | 200.7 | 20 | µg/L | < 15.0 | < 15.0 | < 15.0 | < 15.0 | < 15.0 | < 15.0 | < 15.0 | < 15.0 |
| 24. Silver | Grab | 200.7 | 10 | µg/L | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| 25. Zinc | Grab | 200.7 | 15 | µg/L | 53.8 B | 77.6 | 17.9 | 27.1 | 1,520 | 1,540 | 534 B | 233 |
| 26. Iron | Grab | 200.7 | 20 | µg/L | 977 | 1,600 | 115 | 94.4 | 439 | 451 | 396 | 1,150 |

Notes:

B = Analyte was found in Blank and Sample. See case narrative in lab report for further details.

F1 = Matrix Spike and/or Matrix Spike Duplicate is outside acceptable limits. See case narrative in lab report for further details.

J = Result is less than the reporting limit (RL) but greater than the MDL; concentration is estimated. See case narrative in lab report for further details.

NA = Not Analyzed

* = Relative Percent Difference of Laboratory Control Standard or the Laboratory Control Standard Duplicate exceeds the control limits. See case narrative in lab report for further details.

** = Matrix interference typically is associated with complications caused by constituents in the sample and the sample result may be considered an estimate.

µg/L = Micrograms per liter.

< = Analyte was not detected above the laboratory reporting limit (RL)

Total PCBs, Phthalates, and Xylenes are reported as a sum of the detections or < the highest applicable individual RL

Figures



Legend

- Approximate Site Boundary
- Power Block

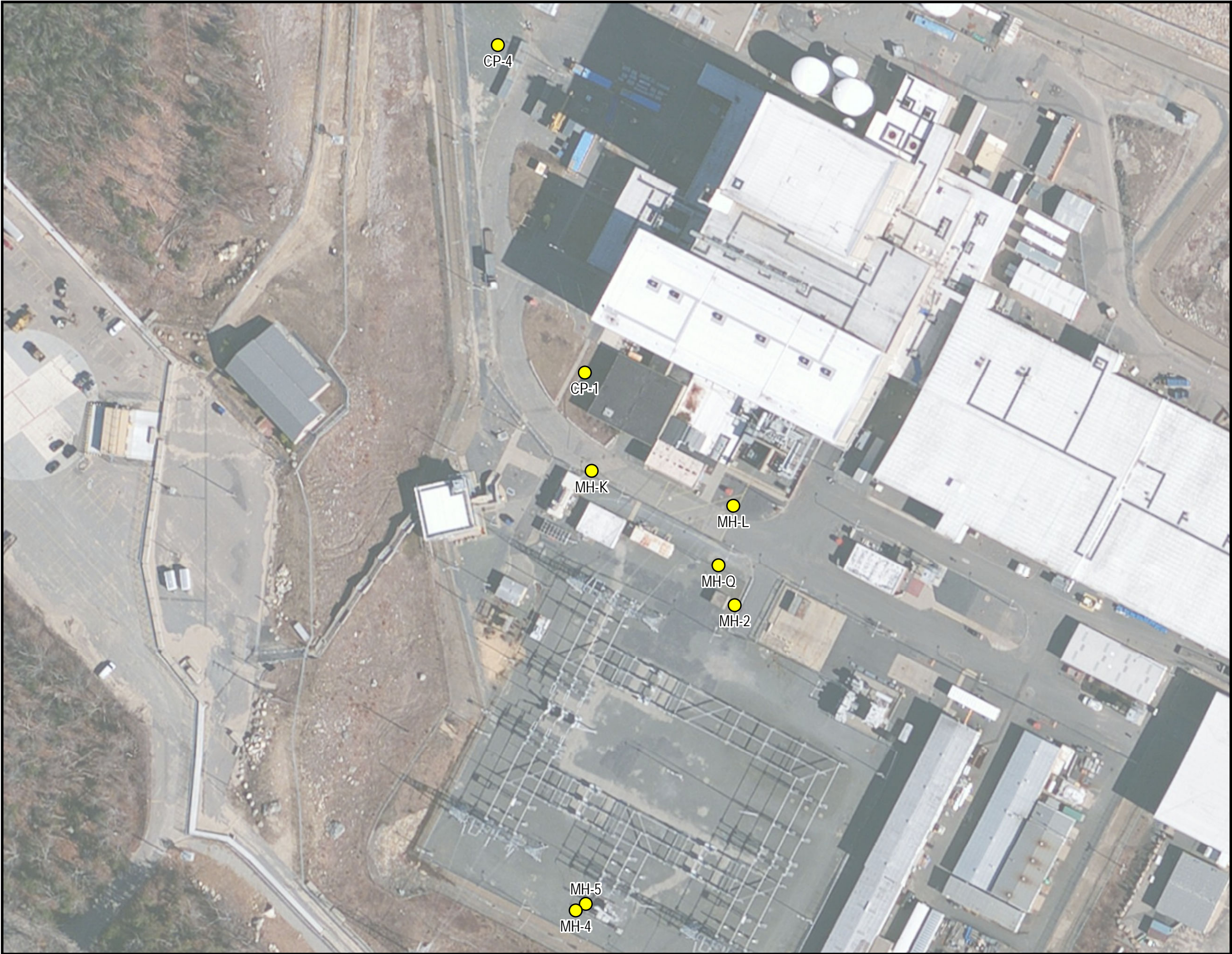
1:24,000

0 500 1,000 2,000 3,000 4,000
Feet

Figure 1 - Site Locus Map

Pilgrim Nuclear Power Station
Plymouth, MA





Legend

● Manhole Sampling Locations (approximate)

NOTES:

- Manhole sampling locations are approximate and were digitized based on aerial imagery

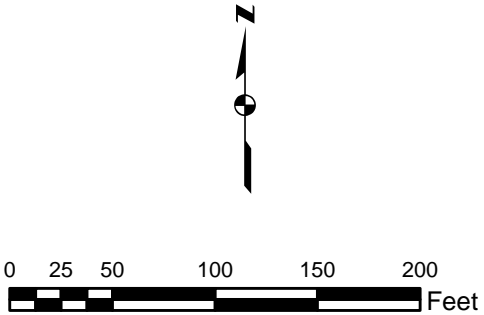


Figure 2 - Manhole Sampling Locations
Pilgrim Nuclear Power Station
Plymouth, MA



Appendix A
EPA Monitoring Parameters

Summary of Monitoring Parameters

| | <u>Parameter</u> | <u>Minimum Level (ML) of detection</u> ¹ |
|--|---|---|
| | 1. Total Suspended Solids (TSS) | 5 mg/L |
| | 2. Total Petroleum Hydrocarbons (TPH) | 5.0mg/L |
| | 3. Cyanide (CN) | 10 ug/L |
| | 4. Benzene (B) | 2 ug/L |
| | 5. Toluene (T) | 2 ug/L |
| | 6. Ethylbenzene (E) | 2 ug/L |
| | 7. (m,p,o) Xylenes (X) | 2 ug/L |
| | 8. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) ² | 2 ug/L |
| | 9. Naphthalene | 2 ug/L |
| | 10. Total Phenols | 50 ug/L |
| | 11. Total Phthalates (Phthalate esters) | 5 ug/L |
| | 12. Bis (2-Ethylhexyl) Phthalate | 5 ug/L |
| | 13. Total Polychlorinated Biphenyls (PCBs) | 0.5 ug/L |

| | <u>Metal parameter</u> | <u>Total Recoverable Metal</u> ³ - ML |
|--|------------------------------|--|
| | 14. Antimony | 10 ug/l |
| | 15. Arsenic | 20 ug/l |
| | 16. Cadmium | 10 ug/l |
| | 17. Chromium III (trivalent) | 15 ug/l |
| | 18. Chromium VI (hexavalent) | 10 ug/l |
| | 19. Copper | 15 ug/l |
| | 20. Lead | 20 ug/l |
| | 21. Mercury | 0.2 ug/l |
| | 22. Nickel | 20 ug/l |
| | 23. Selenium | 20 ug/l |
| | 24. Silver | 10 ug/l |
| | 25. Zinc | 15 ug/l |
| | 26. Iron | 20 ug/l |

Footnotes:

^[1] Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).

² BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.

³ With the exception of Chromium III and Chromium VI

Appendix B
Laboratory Analytical Reports

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-81856-1

Client Project/Site: Monitoring Parameters Analysis

Revision: 1

For:


ERM-Northeast

One Beacon Steet

5th Floor

Boston, Massachusetts 02108

Attn: Ms. Heather M Usle



Authorized for release by:

6/29/2015 3:26:17 PM

Becky Mason, Project Manager II

(413)572-4000

becky.mason@testamericainc.com

LINKS

Review your project
results through

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Have a Question?



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: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Qualifiers

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| * | RPD of the LCS and 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. |

Metals

| 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. |
| B | Compound was found in the blank and sample. |

General Chemistry

| 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. |
| F1 | MS and/or MSD Recovery is outside acceptance 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 |
| CFL | Contains Free Liquid |
| 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: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Job ID: 480-81856-1

Laboratory: TestAmerica Buffalo

Narrative

Revised report: revised case narrative to add note about MS/MSD for method 420.4.

Receipt

The samples were received on 6/10/2015 at 1:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.6° C and 0.8° C.

Receipt Exceptions

Pursuant to the client's request, the following samples were analyzed for all parameters indicated on the Chain of Custody (COC) form: MH-2 (480-81856-1) and CP-1 (480-81856-2).

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 480-247517 recovered above the upper control limit for Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270C LL: The continuing calibration verification (CCV) analyzed in batch 480-247517 was outside the method criteria for Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method 8270C LL: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 480-247456 recovered outside control limits for the following analytes: Butyl benzyl phthalate.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 420.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-247289 and analytical batch 480-247614 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 1664A: The matrix spike (MS) recovery for 248439 was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 480-247456.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Client Sample ID: MH-2

Lab Sample ID: 480-81856-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------------|--------|-----------|-------|--------|------|-----|-----|---|---------------|-----------|
| PCB-1248 | 0.23 | | 0.057 | 0.036 | ug/L | 1 | | | 608 | Total/NA |
| Copper | 9.6 | J | 10.0 | 1.6 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Iron | 977 | | 50.0 | 19.3 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Lead | 13.0 | | 5.0 | 3.0 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Nickel | 2.5 | J | 10.0 | 1.3 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Zinc | 53.8 | B | 10.0 | 1.5 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Antimony | 2.5 | | 1.0 | 0.15 | ug/L | 1 | | | 200.8 | Total/NA |
| Phenolics, Total Recoverable | 52.6 | F1 | 10.0 | 5.0 | ug/L | 1 | | | 420.4 | Total/NA |
| Chromium, hexavalent | 0.0086 | J | 0.010 | 0.0050 | mg/L | 1 | | | SM 3500 CR D | Total/NA |

Client Sample ID: CP-1

Lab Sample ID: 480-81856-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------------|--------|-----------|------|------|------|-----|-----|---|---------------|-----------|
| Cadmium | 1.6 | | 1.0 | 0.50 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Copper | 6.8 | J | 10.0 | 1.6 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Iron | 396 | | 50.0 | 19.3 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Lead | 9.6 | | 5.0 | 3.0 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Zinc | 534 | B | 10.0 | 1.5 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Antimony | 1.4 | | 1.0 | 0.15 | ug/L | 1 | | | 200.8 | Total/NA |
| Phenolics, Total Recoverable | 9.7 | J | 10.0 | 5.0 | ug/L | 1 | | | 420.4 | Total/NA |

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-81856-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Client Sample ID: MH-2
Date Collected: 06/09/15 10:15
Date Received: 06/10/15 01:55

Lab Sample ID: 480-81856-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/10/15 17:24 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/10/15 17:24 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/10/15 17:24 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 06/10/15 17:24 | 1 |
| o-Xylene | ND | | 1.0 | 0.76 | ug/L | | | 06/10/15 17:24 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/10/15 17:24 | 1 |
| Total BTEX | ND | | 2.0 | 1.0 | ug/L | | | 06/10/15 17:24 | 1 |
| Naphthalene | ND | | 1.0 | 0.43 | ug/L | | | 06/10/15 17:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 92 | | 71 - 126 | | | | | 06/10/15 17:24 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 66 - 137 | | | | | 06/10/15 17:24 | 1 |
| 4-Bromofluorobenzene (Surr) | 104 | | 73 - 120 | | | | | 06/10/15 17:24 | 1 |
| Dibromofluoromethane (Surr) | 103 | | 60 - 140 | | | | | 06/10/15 17:24 | 1 |

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| Bis(2-ethylhexyl) phthalate | ND | | 4.7 | 0.40 | ug/L | | 06/11/15 08:27 | 06/11/15 19:04 | 1 |
| Butyl benzyl phthalate | ND | * | 2.8 | 0.15 | ug/L | | 06/11/15 08:27 | 06/11/15 19:04 | 1 |
| Diethyl phthalate | ND | | 0.47 | 0.061 | ug/L | | 06/11/15 08:27 | 06/11/15 19:04 | 1 |
| Dimethyl phthalate | ND | | 0.47 | 0.054 | ug/L | | 06/11/15 08:27 | 06/11/15 19:04 | 1 |
| Di-n-butyl phthalate | ND | | 1.9 | 0.33 | ug/L | | 06/11/15 08:27 | 06/11/15 19:04 | 1 |
| Di-n-octyl phthalate | ND | | 4.7 | 0.19 | ug/L | | 06/11/15 08:27 | 06/11/15 19:04 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol (Surr) | 91 | | 39 - 146 | | | | 06/11/15 08:27 | 06/11/15 19:04 | 1 |
| 2-Fluorobiphenyl | 78 | | 37 - 120 | | | | 06/11/15 08:27 | 06/11/15 19:04 | 1 |
| 2-Fluorophenol (Surr) | 34 | | 18 - 120 | | | | 06/11/15 08:27 | 06/11/15 19:04 | 1 |
| Nitrobenzene-d5 (Surr) | 61 | | 34 - 132 | | | | 06/11/15 08:27 | 06/11/15 19:04 | 1 |
| Phenol-d5 (Surr) | 23 | | 11 - 120 | | | | 06/11/15 08:27 | 06/11/15 19:04 | 1 |
| p-Terphenyl-d14 | 118 | | 58 - 147 | | | | 06/11/15 08:27 | 06/11/15 19:04 | 1 |

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | ND | | 0.057 | 0.036 | ug/L | | 06/11/15 07:49 | 06/11/15 18:41 | 1 |
| PCB-1221 | ND | | 0.057 | 0.036 | ug/L | | 06/11/15 07:49 | 06/11/15 18:41 | 1 |
| PCB-1232 | ND | | 0.057 | 0.036 | ug/L | | 06/11/15 07:49 | 06/11/15 18:41 | 1 |
| PCB-1242 | ND | | 0.057 | 0.036 | ug/L | | 06/11/15 07:49 | 06/11/15 18:41 | 1 |
| PCB-1248 | 0.23 | | 0.057 | 0.036 | ug/L | | 06/11/15 07:49 | 06/11/15 18:41 | 1 |
| PCB-1254 | ND | | 0.057 | 0.029 | ug/L | | 06/11/15 07:49 | 06/11/15 18:41 | 1 |
| PCB-1260 | ND | | 0.057 | 0.029 | ug/L | | 06/11/15 07:49 | 06/11/15 18:41 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl | 47 | | 26 - 135 | | | | 06/11/15 07:49 | 06/11/15 18:41 | 1 |
| Tetrachloro-m-xylene | 80 | | 27 - 159 | | | | 06/11/15 07:49 | 06/11/15 18:41 | 1 |

Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic | ND | | 10.0 | 5.6 | ug/L | | 06/11/15 11:16 | 06/11/15 23:01 | 1 |
| Cadmium | ND | | 1.0 | 0.50 | ug/L | | 06/11/15 11:16 | 06/11/15 23:01 | 1 |
| Copper | 9.6 | J | 10.0 | 1.6 | ug/L | | 06/11/15 11:16 | 06/11/15 23:01 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Client Sample ID: MH-2
Date Collected: 06/09/15 10:15
Date Received: 06/10/15 01:55

Lab Sample ID: 480-81856-1
Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Iron | 977 | | 50.0 | 19.3 | ug/L | | 06/11/15 11:16 | 06/11/15 23:01 | 1 |
| Lead | 13.0 | | 5.0 | 3.0 | ug/L | | 06/11/15 11:16 | 06/11/15 23:01 | 1 |
| Nickel | 2.5 | J | 10.0 | 1.3 | ug/L | | 06/11/15 11:16 | 06/11/15 23:01 | 1 |
| Selenium | ND | | 15.0 | 8.7 | ug/L | | 06/11/15 11:16 | 06/11/15 23:01 | 1 |
| Silver | ND | | 3.0 | 1.7 | ug/L | | 06/11/15 11:16 | 06/11/15 23:01 | 1 |
| Zinc | 53.8 | B | 10.0 | 1.5 | ug/L | | 06/11/15 11:16 | 06/11/15 23:01 | 1 |

Method: 200.8 - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Antimony | 2.5 | | 1.0 | 0.15 | ug/L | | 06/11/15 08:44 | 06/11/15 18:12 | 1 |

Method: 245.1 - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.12 | ug/L | | 06/12/15 10:15 | 06/12/15 14:44 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Total Petroleum Hydrocarbons (1664A) | ND | F1 | 5.1 | 2.0 | mg/L | | 06/17/15 02:40 | 06/17/15 03:17 | 1 |
| Cyanide, Total | ND | | 0.010 | 0.0050 | mg/L | | 06/11/15 08:52 | 06/12/15 12:40 | 1 |
| Phenolics, Total Recoverable | 52.6 | F1 | 10.0 | 5.0 | ug/L | | 06/10/15 11:47 | 06/11/15 12:10 | 1 |
| Chromium, hexavalent | 0.0086 | J | 0.010 | 0.0050 | mg/L | | | 06/10/15 08:45 | 1 |
| Cr (III) | ND | | 0.010 | 0.0060 | mg/L | | | 06/15/15 15:57 | 1 |
| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids | ND | | 4.0 | 4.0 | mg/L | | | 06/11/15 07:02 | 1 |

Client Sample ID: CP-1

Date Collected: 06/09/15 13:20

Date Received: 06/10/15 01:55

Lab Sample ID: 480-81856-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/10/15 17:48 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/10/15 17:48 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/10/15 17:48 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 06/10/15 17:48 | 1 |
| o-Xylene | ND | | 1.0 | 0.76 | ug/L | | | 06/10/15 17:48 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/10/15 17:48 | 1 |
| Total BTEX | ND | | 2.0 | 1.0 | ug/L | | | 06/10/15 17:48 | 1 |
| Naphthalene | ND | | 1.0 | 0.43 | ug/L | | | 06/10/15 17:48 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 93 | | 71 - 126 | | 06/10/15 17:48 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 66 - 137 | | 06/10/15 17:48 | 1 |
| 4-Bromofluorobenzene (Surr) | 106 | | 73 - 120 | | 06/10/15 17:48 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 60 - 140 | | 06/10/15 17:48 | 1 |

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Bis(2-ethylhexyl) phthalate | ND | | 4.8 | 0.40 | ug/L | | 06/11/15 08:27 | 06/11/15 19:34 | 1 |
| Butyl benzyl phthalate | ND | * | 2.9 | 0.15 | ug/L | | 06/11/15 08:27 | 06/11/15 19:34 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Client Sample ID: CP-1

Date Collected: 06/09/15 13:20

Date Received: 06/10/15 01:55

Lab Sample ID: 480-81856-2

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Diethyl phthalate | ND | | 0.48 | 0.061 | ug/L | | 06/11/15 08:27 | 06/11/15 19:34 | 1 |
| Dimethyl phthalate | ND | | 0.48 | 0.054 | ug/L | | 06/11/15 08:27 | 06/11/15 19:34 | 1 |
| Di-n-butyl phthalate | ND | | 1.9 | 0.33 | ug/L | | 06/11/15 08:27 | 06/11/15 19:34 | 1 |
| Di-n-octyl phthalate | ND | | 4.8 | 0.19 | ug/L | | 06/11/15 08:27 | 06/11/15 19:34 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 104 | | 39 - 146 | 06/11/15 08:27 | 06/11/15 19:34 | 1 |
| 2-Fluorobiphenyl | 88 | | 37 - 120 | 06/11/15 08:27 | 06/11/15 19:34 | 1 |
| 2-Fluorophenol (Surr) | 41 | | 18 - 120 | 06/11/15 08:27 | 06/11/15 19:34 | 1 |
| Nitrobenzene-d5 (Surr) | 66 | | 34 - 132 | 06/11/15 08:27 | 06/11/15 19:34 | 1 |
| Phenol-d5 (Surr) | 29 | | 11 - 120 | 06/11/15 08:27 | 06/11/15 19:34 | 1 |
| p-Terphenyl-d14 | 95 | | 58 - 147 | 06/11/15 08:27 | 06/11/15 19:34 | 1 |

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | ND | | 0.056 | 0.036 | ug/L | | 06/11/15 07:49 | 06/11/15 18:57 | 1 |
| PCB-1221 | ND | | 0.056 | 0.036 | ug/L | | 06/11/15 07:49 | 06/11/15 18:57 | 1 |
| PCB-1232 | ND | | 0.056 | 0.036 | ug/L | | 06/11/15 07:49 | 06/11/15 18:57 | 1 |
| PCB-1242 | ND | | 0.056 | 0.036 | ug/L | | 06/11/15 07:49 | 06/11/15 18:57 | 1 |
| PCB-1248 | ND | | 0.056 | 0.036 | ug/L | | 06/11/15 07:49 | 06/11/15 18:57 | 1 |
| PCB-1254 | ND | | 0.056 | 0.029 | ug/L | | 06/11/15 07:49 | 06/11/15 18:57 | 1 |
| PCB-1260 | ND | | 0.056 | 0.029 | ug/L | | 06/11/15 07:49 | 06/11/15 18:57 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl | 47 | | 26 - 135 | 06/11/15 07:49 | 06/11/15 18:57 | 1 |
| Tetrachloro-m-xylene | 83 | | 27 - 159 | 06/11/15 07:49 | 06/11/15 18:57 | 1 |

Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic | ND | | 10.0 | 5.6 | ug/L | | 06/11/15 11:16 | 06/11/15 23:04 | 1 |
| Cadmium | 1.6 | | 1.0 | 0.50 | ug/L | | 06/11/15 11:16 | 06/11/15 23:04 | 1 |
| Copper | 6.8 J | | 10.0 | 1.6 | ug/L | | 06/11/15 11:16 | 06/11/15 23:04 | 1 |
| Iron | 396 | | 50.0 | 19.3 | ug/L | | 06/11/15 11:16 | 06/11/15 23:04 | 1 |
| Lead | 9.6 | | 5.0 | 3.0 | ug/L | | 06/11/15 11:16 | 06/11/15 23:04 | 1 |
| Nickel | ND | | 10.0 | 1.3 | ug/L | | 06/11/15 11:16 | 06/11/15 23:04 | 1 |
| Selenium | ND | | 15.0 | 8.7 | ug/L | | 06/11/15 11:16 | 06/11/15 23:04 | 1 |
| Silver | ND | | 3.0 | 1.7 | ug/L | | 06/11/15 11:16 | 06/11/15 23:04 | 1 |
| Zinc | 534 B | | 10.0 | 1.5 | ug/L | | 06/11/15 11:16 | 06/11/15 23:04 | 1 |

Method: 200.8 - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Antimony | 1.4 | | 1.0 | 0.15 | ug/L | | 06/11/15 08:44 | 06/11/15 18:18 | 1 |

Method: 245.1 - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.12 | ug/L | | 06/12/15 10:15 | 06/12/15 14:45 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Total Petroleum Hydrocarbons (1664A) | ND | | 5.1 | 2.0 | mg/L | | 06/17/15 02:40 | 06/17/15 03:17 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Client Sample ID: CP-1

Date Collected: 06/09/15 13:20

Date Received: 06/10/15 01:55

Lab Sample ID: 480-81856-2

Matrix: Water

General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|------------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | ND | | 0.010 | 0.0050 | mg/L | | 06/11/15 08:52 | 06/12/15 12:42 | 1 |
| Phenolics, Total Recoverable | 9.7 | J | 10.0 | 5.0 | ug/L | | 06/10/15 11:47 | 06/11/15 12:16 | 1 |
| Chromium, hexavalent | ND | | 0.010 | 0.0050 | mg/L | | | 06/10/15 08:45 | 1 |
| Cr (III) | ND | | 0.010 | 0.0060 | mg/L | | | 06/15/15 15:57 | 1 |
| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids | ND | | 4.0 | 4.0 | mg/L | | | 06/11/15 07:02 | 1 |

Client Sample ID: TRIP BLANK

Date Collected: 06/09/15 11:11

Date Received: 06/10/15 01:55

Lab Sample ID: 480-81856-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/10/15 11:49 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/10/15 11:49 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/10/15 11:49 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 06/10/15 11:49 | 1 |
| o-Xylene | ND | | 1.0 | 0.76 | ug/L | | | 06/10/15 11:49 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/10/15 11:49 | 1 |
| Total BTEX | ND | | 2.0 | 1.0 | ug/L | | | 06/10/15 11:49 | 1 |
| Naphthalene | ND | | 1.0 | 0.43 | ug/L | | | 06/10/15 11:49 | 1 |
| Tert-amyl methyl ether | ND | | 1.0 | 0.27 | ug/L | | | 06/10/15 11:49 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| <i>Toluene-d8 (Surr)</i> | 93 | | 71 - 126 | | | | | 06/10/15 11:49 | 1 |
| <i>1,2-Dichloroethane-d4 (Surr)</i> | 89 | | 66 - 137 | | | | | 06/10/15 11:49 | 1 |
| <i>4-Bromofluorobenzene (Surr)</i> | 105 | | 73 - 120 | | | | | 06/10/15 11:49 | 1 |
| <i>Dibromofluoromethane (Surr)</i> | 97 | | 60 - 140 | | | | | 06/10/15 11:49 | 1 |

TestAmerica Buffalo

Surrogate Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|-------------------|------------------------|--|-------------------|-----------------|------------------|
| | | TOL (71-126) | 12DCE (66-137) | BFB (73-120) | DBFM (60-140) |
| 480-81856-1 | MH-2 | 92 | 93 | 104 | 103 |
| 480-81856-2 | CP-1 | 93 | 92 | 106 | 101 |
| 480-81856-3 | TRIP BLANK | 93 | 89 | 105 | 97 |
| LCS 480-247185/4 | Lab Control Sample | 93 | 89 | 109 | 98 |
| LCSD 480-247185/5 | Lab Control Sample Dup | 89 | 91 | 105 | 98 |
| MB 480-247185/7 | Method Blank | 93 | 91 | 107 | 99 |

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|---------------------|------------------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | TBP (39-146) | FBP (37-120) | 2FP (18-120) | NBZ (34-132) | PHL (11-120) | TPH (58-147) |
| 480-81856-1 | MH-2 | 91 | 78 | 34 | 61 | 23 | 118 |
| 480-81856-2 | CP-1 | 104 | 88 | 41 | 66 | 29 | 95 |
| LCS 480-247456/2-A | Lab Control Sample | 95 | 71 | 46 | 90 | 32 | 90 |
| LCSD 480-247456/3-A | Lab Control Sample Dup | 87 | 76 | 37 | 63 | 26 | 77 |
| MB 480-247456/1-A | Method Blank | 93 | 83 | 44 | 75 | 30 | 102 |

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|--------------------|--|------------------|
| | | DCB1 (26-135) | TCX1 (27-159) |
| 480-81856-1 | MH-2 | 47 | 80 |
| 480-81856-2 | CP-1 | 47 | 83 |
| LCS 480-247418/2-A | Lab Control Sample | 44 | 80 |
| MB 480-247418/1-A | Method Blank | 49 | 79 |

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-247185/7

Matrix: Water

Analysis Batch: 247185

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/10/15 10:27 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/10/15 10:27 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/10/15 10:27 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 06/10/15 10:27 | 1 |
| o-Xylene | ND | | 1.0 | 0.76 | ug/L | | | 06/10/15 10:27 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/10/15 10:27 | 1 |
| Total BTEX | ND | | 2.0 | 1.0 | ug/L | | | 06/10/15 10:27 | 1 |
| Naphthalene | ND | | 1.0 | 0.43 | ug/L | | | 06/10/15 10:27 | 1 |
| Tert-amyl methyl ether | ND | | 1.0 | 0.27 | ug/L | | | 06/10/15 10:27 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 93 | | 71 - 126 | | 06/10/15 10:27 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 91 | | 66 - 137 | | 06/10/15 10:27 | 1 |
| 4-Bromofluorobenzene (Surr) | 107 | | 73 - 120 | | 06/10/15 10:27 | 1 |
| Dibromofluoromethane (Surr) | 99 | | 60 - 140 | | 06/10/15 10:27 | 1 |

Lab Sample ID: LCS 480-247185/4

Matrix: Water

Analysis Batch: 247185

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|------|---|------|--------------|
| Benzene | 25.0 | 25.8 | | ug/L | | 103 | 71 - 124 |
| Toluene | 25.0 | 24.4 | | ug/L | | 97 | 80 - 122 |
| Ethylbenzene | 25.0 | 24.2 | | ug/L | | 97 | 77 - 123 |
| m-Xylene & p-Xylene | 25.0 | 24.6 | | ug/L | | 98 | 76 - 122 |
| o-Xylene | 25.0 | 24.8 | | ug/L | | 99 | 76 - 122 |
| Naphthalene | 25.0 | 23.0 | | ug/L | | 92 | 66 - 125 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| Toluene-d8 (Surr) | 93 | | 71 - 126 |
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 109 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 98 | | 60 - 140 |

Lab Sample ID: LCSD 480-247185/5

Matrix: Water

Analysis Batch: 247185

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 |
|---------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Benzene | 25.0 | 24.7 | | ug/L | | 99 | 71 - 124 | 4 | 13 |
| Toluene | 25.0 | 22.6 | | ug/L | | 91 | 80 - 122 | 7 | 15 |
| Ethylbenzene | 25.0 | 22.7 | | ug/L | | 91 | 77 - 123 | 6 | 15 |
| m-Xylene & p-Xylene | 25.0 | 22.8 | | ug/L | | 91 | 76 - 122 | 8 | 16 |
| o-Xylene | 25.0 | 23.1 | | ug/L | | 92 | 76 - 122 | 7 | 16 |
| Naphthalene | 25.0 | 22.9 | | ug/L | | 91 | 66 - 125 | 0 | 20 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-247185/5

Matrix: Water

Analysis Batch: 247185

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|------------------------------|-------------------|-------------------|----------|
| Toluene-d8 (Surr) | 89 | | 71 - 126 |
| 1,2-Dichloroethane-d4 (Surr) | 91 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 105 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 98 | | 60 - 140 |

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 480-247456/1-A

Matrix: Water

Analysis Batch: 247517

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 247456

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------------|------|-------|------|---|----------------|----------------|---------|
| Bis(2-ethylhexyl) phthalate | ND | | 5.0 | 0.42 | ug/L | | 06/11/15 08:27 | 06/11/15 17:34 | 1 |
| Butyl benzyl phthalate | ND | | 3.0 | 0.16 | ug/L | | 06/11/15 08:27 | 06/11/15 17:34 | 1 |
| Diethyl phthalate | ND | | 0.50 | 0.064 | ug/L | | 06/11/15 08:27 | 06/11/15 17:34 | 1 |
| Dimethyl phthalate | ND | | 0.50 | 0.057 | ug/L | | 06/11/15 08:27 | 06/11/15 17:34 | 1 |
| Di-n-butyl phthalate | ND | | 2.0 | 0.35 | ug/L | | 06/11/15 08:27 | 06/11/15 17:34 | 1 |
| Di-n-octyl phthalate | ND | | 5.0 | 0.20 | ug/L | | 06/11/15 08:27 | 06/11/15 17:34 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 93 | | 39 - 146 | 06/11/15 08:27 | 06/11/15 17:34 | 1 |
| 2-Fluorobiphenyl | 83 | | 37 - 120 | 06/11/15 08:27 | 06/11/15 17:34 | 1 |
| 2-Fluorophenol (Surr) | 44 | | 18 - 120 | 06/11/15 08:27 | 06/11/15 17:34 | 1 |
| Nitrobenzene-d5 (Surr) | 75 | | 34 - 132 | 06/11/15 08:27 | 06/11/15 17:34 | 1 |
| Phenol-d5 (Surr) | 30 | | 11 - 120 | 06/11/15 08:27 | 06/11/15 17:34 | 1 |
| p-Terphenyl-d14 | 102 | | 58 - 147 | 06/11/15 08:27 | 06/11/15 17:34 | 1 |

Lab Sample ID: LCS 480-247456/2-A

Matrix: Water

Analysis Batch: 247517

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 247456

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|-----------------------------|----------------|---------------|------------------|------|---|------|----------|
| Bis(2-ethylhexyl) phthalate | 4.00 | 4.21 | J | ug/L | | 105 | 69 - 136 |
| Butyl benzyl phthalate | 4.00 | 4.25 | | ug/L | | 106 | 58 - 164 |
| Diethyl phthalate | 4.00 | 4.07 | | ug/L | | 102 | 57 - 145 |
| Dimethyl phthalate | 4.00 | 3.75 | | ug/L | | 94 | 55 - 136 |
| Di-n-butyl phthalate | 4.00 | 3.85 | | ug/L | | 96 | 59 - 172 |
| Di-n-octyl phthalate | 4.00 | 4.85 | J | ug/L | | 121 | 76 - 141 |
| Naphthalene | 4.00 | 3.24 | | ug/L | | 81 | 25 - 125 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|------------------|------------------|----------|
| 2,4,6-Tribromophenol (Surr) | 95 | | 39 - 146 |
| 2-Fluorobiphenyl | 71 | | 37 - 120 |
| 2-Fluorophenol (Surr) | 46 | | 18 - 120 |
| Nitrobenzene-d5 (Surr) | 90 | | 34 - 132 |
| Phenol-d5 (Surr) | 32 | | 11 - 120 |
| p-Terphenyl-d14 | 90 | | 58 - 147 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Lab Sample ID: LCSD 480-247456/3-A

Matrix: Water

Analysis Batch: 247517

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 247456

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Bis(2-ethylhexyl) phthalate | 4.00 | 3.92 | J | ug/L | | 98 | 69 - 136 | 7 | 15 |
| Butyl benzyl phthalate | 4.00 | 3.35 | * | ug/L | | 84 | 58 - 164 | 24 | 16 |
| Diethyl phthalate | 4.00 | 3.80 | | ug/L | | 95 | 57 - 145 | 7 | 15 |
| Dimethyl phthalate | 4.00 | 3.43 | | ug/L | | 86 | 55 - 136 | 9 | 15 |
| Di-n-butyl phthalate | 4.00 | 4.07 | | ug/L | | 102 | 59 - 172 | 6 | 15 |
| Di-n-octyl phthalate | 4.00 | 4.46 | J | ug/L | | 111 | 76 - 141 | 8 | 16 |
| Naphthalene | 4.00 | 3.26 | | ug/L | | 81 | 25 - 125 | 0 | 29 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|----------------|----------------|----------|
| 2,4,6-Tribromophenol (Surr) | 87 | | 39 - 146 |
| 2-Fluorobiphenyl | 76 | | 37 - 120 |
| 2-Fluorophenol (Surr) | 37 | | 18 - 120 |
| Nitrobenzene-d5 (Surr) | 63 | | 34 - 132 |
| Phenol-d5 (Surr) | 26 | | 11 - 120 |
| p-Terphenyl-d14 | 77 | | 58 - 147 |

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 480-247418/1-A

Matrix: Water

Analysis Batch: 247617

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 247418

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | ND | | 0.060 | 0.038 | ug/L | | 06/11/15 07:49 | 06/11/15 16:33 | 1 |
| PCB-1221 | ND | | 0.060 | 0.038 | ug/L | | 06/11/15 07:49 | 06/11/15 16:33 | 1 |
| PCB-1232 | ND | | 0.060 | 0.038 | ug/L | | 06/11/15 07:49 | 06/11/15 16:33 | 1 |
| PCB-1242 | ND | | 0.060 | 0.038 | ug/L | | 06/11/15 07:49 | 06/11/15 16:33 | 1 |
| PCB-1248 | ND | | 0.060 | 0.038 | ug/L | | 06/11/15 07:49 | 06/11/15 16:33 | 1 |
| PCB-1254 | ND | | 0.060 | 0.031 | ug/L | | 06/11/15 07:49 | 06/11/15 16:33 | 1 |
| PCB-1260 | ND | | 0.060 | 0.031 | ug/L | | 06/11/15 07:49 | 06/11/15 16:33 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------|--------------|--------------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl | 49 | | 26 - 135 | 06/11/15 07:49 | 06/11/15 16:33 | 1 |
| Tetrachloro-m-xylene | 79 | | 27 - 159 | 06/11/15 07:49 | 06/11/15 16:33 | 1 |

Lab Sample ID: LCS 480-247418/2-A

Matrix: Water

Analysis Batch: 247617

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 247418

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| PCB-1016 | 1.00 | 0.942 | | ug/L | | 94 | 40 - 142 |
| PCB-1260 | 1.00 | 0.728 | | ug/L | | 73 | 67 - 148 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------|---------------|---------------|----------|
| DCB Decachlorobiphenyl | 44 | | 26 - 135 |
| Tetrachloro-m-xylene | 80 | | 27 - 159 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-247320/1-A

Matrix: Water

Analysis Batch: 247697

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 247320

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Arsenic | ND | | 10.0 | 5.6 | ug/L | | 06/11/15 11:16 | 06/11/15 22:29 | 1 |
| Cadmium | ND | | 1.0 | 0.50 | ug/L | | 06/11/15 11:16 | 06/11/15 22:29 | 1 |
| Copper | ND | | 10.0 | 1.6 | ug/L | | 06/11/15 11:16 | 06/11/15 22:29 | 1 |
| Iron | ND | | 50.0 | 19.3 | ug/L | | 06/11/15 11:16 | 06/11/15 22:29 | 1 |
| Lead | ND | | 5.0 | 3.0 | ug/L | | 06/11/15 11:16 | 06/11/15 22:29 | 1 |
| Nickel | ND | | 10.0 | 1.3 | ug/L | | 06/11/15 11:16 | 06/11/15 22:29 | 1 |
| Selenium | ND | | 15.0 | 8.7 | ug/L | | 06/11/15 11:16 | 06/11/15 22:29 | 1 |
| Silver | ND | | 3.0 | 1.7 | ug/L | | 06/11/15 11:16 | 06/11/15 22:29 | 1 |
| Zinc | 8.99 | J | 10.0 | 1.5 | ug/L | | 06/11/15 11:16 | 06/11/15 22:29 | 1 |

Lab Sample ID: LCS 480-247320/2-A

Matrix: Water

Analysis Batch: 247697

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 247320

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------|-------------|------------|---------------|------|---|------|----------|
| Arsenic | 200 | 192.3 | | ug/L | | 96 | 85 - 115 |
| Cadmium | 200 | 192.1 | | ug/L | | 96 | 85 - 115 |
| Copper | 200 | 193.9 | | ug/L | | 97 | 85 - 115 |
| Iron | 10000 | 9244 | | ug/L | | 92 | 85 - 115 |
| Lead | 200 | 190.5 | | ug/L | | 95 | 85 - 115 |
| Nickel | 200 | 190.3 | | ug/L | | 95 | 85 - 115 |
| Selenium | 200 | 200.7 | | ug/L | | 100 | 85 - 115 |
| Silver | 50.0 | 49.66 | | ug/L | | 99 | 85 - 115 |
| Zinc | 200 | 195.4 | | ug/L | | 98 | 85 - 115 |

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 480-247457/1-A

Matrix: Water

Analysis Batch: 247779

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 247457

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Antimony | ND | | 1.0 | 0.15 | ug/L | | 06/11/15 08:44 | 06/11/15 16:30 | 1 |

Lab Sample ID: LCS 480-247457/2-A

Matrix: Water

Analysis Batch: 247779

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 247457

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------|-------------|------------|---------------|------|---|------|----------|
| Antimony | 20.0 | 20.25 | | ug/L | | 101 | 85 - 115 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-247718/1-A
Matrix: Water
Analysis Batch: 247860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 247718

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.12 | ug/L | | 06/12/15 10:15 | 06/12/15 14:03 | 1 |

Lab Sample ID: LCS 480-247718/2-A
Matrix: Water
Analysis Batch: 247860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 247718

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Mercury | 6.67 | 6.78 | | ug/L | | 102 | 85 - 115 |

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 480-248437/1-A
Matrix: Water
Analysis Batch: 248439

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 248437

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Total Petroleum Hydrocarbons (1664A) | ND | | 5.0 | 1.9 | mg/L | | 06/17/15 02:40 | 06/17/15 03:17 | 1 |

Lab Sample ID: LCS 480-248437/2-A
Matrix: Water
Analysis Batch: 248439

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 248437

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Petroleum Hydrocarbons (1664A) | 20.0 | 12.80 | | mg/L | | 64 | 64 - 132 |

Lab Sample ID: 480-81856-1 MS
Matrix: Water
Analysis Batch: 248439

Client Sample ID: MH-2
Prep Type: Total/NA
Prep Batch: 248437

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Total Petroleum Hydrocarbons (1664A) | ND | F1 | 10.1 | 4.14 | J F1 | mg/L | | 41 | 64 - 132 |

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-247483/1-A
Matrix: Water
Analysis Batch: 247829

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 247483

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|--------------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | ND | | 0.010 | 0.0050 | mg/L | | 06/11/15 08:52 | 06/12/15 12:34 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCS 480-247483/2-A
Matrix: Water
Analysis Batch: 247829

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 247483

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|------|---|------|--------------|
| Cyanide, Total | 0.400 | 0.379 | | mg/L | | 95 | 90 - 110 |

Lab Sample ID: 480-81856-1 DU
Matrix: Water
Analysis Batch: 247829

Client Sample ID: MH-2
Prep Type: Total/NA
Prep Batch: 247483

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|----------------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Cyanide, Total | ND | | ND | | mg/L | | NC | 15 |

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-247289/1-A
Matrix: Water
Analysis Batch: 247614

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 247289

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|--------------|------|-----|------|---|----------------|----------------|---------|
| Phenolics, Total Recoverable | ND | | 10.0 | 5.0 | ug/L | | 06/10/15 11:47 | 06/11/15 08:45 | 1 |

Lab Sample ID: LCS 480-247289/2-A
Matrix: Water
Analysis Batch: 247614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 247289

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Phenolics, Total Recoverable | 100 | 96.56 | | ug/L | | 97 | 90 - 110 |

Lab Sample ID: 480-81856-1 MS
Matrix: Water
Analysis Batch: 247614

Client Sample ID: MH-2
Prep Type: Total/NA
Prep Batch: 247289

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Phenolics, Total Recoverable | 52.6 | F1 | 100 | 99.58 | F1 | ug/L | | 47 | 90 - 110 |

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-247410/1
Matrix: Water
Analysis Batch: 247410

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Total Suspended Solids | ND | | 4.0 | 4.0 | mg/L | | | 06/11/15 07:02 | 1 |

Lab Sample ID: LCS 480-247410/2
Matrix: Water
Analysis Batch: 247410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Suspended Solids | 253 | 250.8 | | mg/L | | 99 | 88 - 110 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: 480-81856-1 DU
Matrix: Water
Analysis Batch: 247410

Client Sample ID: MH-2
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Total Suspended Solids | ND | | ND | | mg/L | - | NC | 15 |

Method: SM 3500 CR D - Chromium, Hexavalent

Lab Sample ID: MB 480-247285/3
Matrix: Water
Analysis Batch: 247285

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Chromium, hexavalent | ND | | 0.010 | 0.0050 | mg/L | - | | 06/10/15 08:45 | 1 |

Lab Sample ID: LCS 480-247285/4
Matrix: Water
Analysis Batch: 247285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|------|---|------|--------------|
| Chromium, hexavalent | 0.0500 | 0.0571 | | mg/L | - | 114 | 85 - 115 |

Lab Sample ID: 480-81856-1 DU
Matrix: Water
Analysis Batch: 247285

Client Sample ID: MH-2
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|----------------------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Chromium, hexavalent | 0.0086 | J | ND | | mg/L | - | NC | 15 |

QC Association Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

GC/MS VOA

Analysis Batch: 247185

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | 8260C | |
| 480-81856-2 | CP-1 | Total/NA | Water | 8260C | |
| 480-81856-3 | TRIP BLANK | Total/NA | Water | 8260C | |
| LCS 480-247185/4 | Lab Control Sample | Total/NA | Water | 8260C | |
| LCSD 480-247185/5 | Lab Control Sample Dup | Total/NA | Water | 8260C | |
| MB 480-247185/7 | Method Blank | Total/NA | Water | 8260C | |

GC/MS Semi VOA

Prep Batch: 247456

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | 3510C | |
| 480-81856-2 | CP-1 | Total/NA | Water | 3510C | |
| LCS 480-247456/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 480-247456/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| MB 480-247456/1-A | Method Blank | Total/NA | Water | 3510C | |

Analysis Batch: 247517

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | 8270C LL | 247456 |
| 480-81856-2 | CP-1 | Total/NA | Water | 8270C LL | 247456 |
| LCS 480-247456/2-A | Lab Control Sample | Total/NA | Water | 8270C LL | 247456 |
| LCSD 480-247456/3-A | Lab Control Sample Dup | Total/NA | Water | 8270C LL | 247456 |
| MB 480-247456/1-A | Method Blank | Total/NA | Water | 8270C LL | 247456 |

GC Semi VOA

Prep Batch: 247418

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | 3510C | |
| 480-81856-2 | CP-1 | Total/NA | Water | 3510C | |
| LCS 480-247418/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| MB 480-247418/1-A | Method Blank | Total/NA | Water | 3510C | |

Analysis Batch: 247617

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | 608 | 247418 |
| 480-81856-2 | CP-1 | Total/NA | Water | 608 | 247418 |
| LCS 480-247418/2-A | Lab Control Sample | Total/NA | Water | 608 | 247418 |
| MB 480-247418/1-A | Method Blank | Total/NA | Water | 608 | 247418 |

Metals

Prep Batch: 247320

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | 200.7 | |
| 480-81856-2 | CP-1 | Total/NA | Water | 200.7 | |
| LCS 480-247320/2-A | Lab Control Sample | Total/NA | Water | 200.7 | |
| MB 480-247320/1-A | Method Blank | Total/NA | Water | 200.7 | |

TestAmerica Buffalo

QC Association Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Metals (Continued)

Prep Batch: 247457

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | 200.8 | |
| 480-81856-2 | CP-1 | Total/NA | Water | 200.8 | |
| LCS 480-247457/2-A | Lab Control Sample | Total/NA | Water | 200.8 | |
| MB 480-247457/1-A | Method Blank | Total/NA | Water | 200.8 | |

Analysis Batch: 247697

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|---------------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | 200.7 Rev 4.4 | 247320 |
| 480-81856-2 | CP-1 | Total/NA | Water | 200.7 Rev 4.4 | 247320 |
| LCS 480-247320/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | 247320 |
| MB 480-247320/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | 247320 |

Prep Batch: 247718

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | 245.1 | |
| 480-81856-2 | CP-1 | Total/NA | Water | 245.1 | |
| LCS 480-247718/2-A | Lab Control Sample | Total/NA | Water | 245.1 | |
| MB 480-247718/1-A | Method Blank | Total/NA | Water | 245.1 | |

Analysis Batch: 247779

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | 200.8 | 247457 |
| 480-81856-2 | CP-1 | Total/NA | Water | 200.8 | 247457 |
| LCS 480-247457/2-A | Lab Control Sample | Total/NA | Water | 200.8 | 247457 |
| MB 480-247457/1-A | Method Blank | Total/NA | Water | 200.8 | 247457 |

Analysis Batch: 247860

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | 245.1 | 247718 |
| 480-81856-2 | CP-1 | Total/NA | Water | 245.1 | 247718 |
| LCS 480-247718/2-A | Lab Control Sample | Total/NA | Water | 245.1 | 247718 |
| MB 480-247718/1-A | Method Blank | Total/NA | Water | 245.1 | 247718 |

General Chemistry

Analysis Batch: 247285

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | SM 3500 CR D | |
| 480-81856-1 DU | MH-2 | Total/NA | Water | SM 3500 CR D | |
| 480-81856-2 | CP-1 | Total/NA | Water | SM 3500 CR D | |
| LCS 480-247285/4 | Lab Control Sample | Total/NA | Water | SM 3500 CR D | |
| MB 480-247285/3 | Method Blank | Total/NA | Water | SM 3500 CR D | |

Prep Batch: 247289

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|----------------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | Distill/Phenol | |
| 480-81856-1 MS | MH-2 | Total/NA | Water | Distill/Phenol | |
| 480-81856-2 | CP-1 | Total/NA | Water | Distill/Phenol | |
| LCS 480-247289/2-A | Lab Control Sample | Total/NA | Water | Distill/Phenol | |
| MB 480-247289/1-A | Method Blank | Total/NA | Water | Distill/Phenol | |

TestAmerica Buffalo

QC Association Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

General Chemistry (Continued)

Analysis Batch: 247410

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | SM 2540D | |
| 480-81856-1 DU | MH-2 | Total/NA | Water | SM 2540D | |
| 480-81856-2 | CP-1 | Total/NA | Water | SM 2540D | |
| LCS 480-247410/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| MB 480-247410/1 | Method Blank | Total/NA | Water | SM 2540D | |

Prep Batch: 247483

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | Distill/CN | |
| 480-81856-1 DU | MH-2 | Total/NA | Water | Distill/CN | |
| 480-81856-2 | CP-1 | Total/NA | Water | Distill/CN | |
| LCS 480-247483/2-A | Lab Control Sample | Total/NA | Water | Distill/CN | |
| MB 480-247483/1-A | Method Blank | Total/NA | Water | Distill/CN | |

Analysis Batch: 247614

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | 420.4 | 247289 |
| 480-81856-1 MS | MH-2 | Total/NA | Water | 420.4 | 247289 |
| 480-81856-2 | CP-1 | Total/NA | Water | 420.4 | 247289 |
| LCS 480-247289/2-A | Lab Control Sample | Total/NA | Water | 420.4 | 247289 |
| MB 480-247289/1-A | Method Blank | Total/NA | Water | 420.4 | 247289 |

Analysis Batch: 247829

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | 335.4 | 247483 |
| 480-81856-1 DU | MH-2 | Total/NA | Water | 335.4 | 247483 |
| 480-81856-2 | CP-1 | Total/NA | Water | 335.4 | 247483 |
| LCS 480-247483/2-A | Lab Control Sample | Total/NA | Water | 335.4 | 247483 |
| MB 480-247483/1-A | Method Blank | Total/NA | Water | 335.4 | 247483 |

Analysis Batch: 248140

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | SM 3500 CR D | |
| 480-81856-2 | CP-1 | Total/NA | Water | SM 3500 CR D | |

Prep Batch: 248437

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | 1664A | |
| 480-81856-1 MS | MH-2 | Total/NA | Water | 1664A | |
| 480-81856-2 | CP-1 | Total/NA | Water | 1664A | |
| LCS 480-248437/2-A | Lab Control Sample | Total/NA | Water | 1664A | |
| MB 480-248437/1-A | Method Blank | Total/NA | Water | 1664A | |

Analysis Batch: 248439

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-81856-1 | MH-2 | Total/NA | Water | 1664A | 248437 |
| 480-81856-1 MS | MH-2 | Total/NA | Water | 1664A | 248437 |
| 480-81856-2 | CP-1 | Total/NA | Water | 1664A | 248437 |
| LCS 480-248437/2-A | Lab Control Sample | Total/NA | Water | 1664A | 248437 |
| MB 480-248437/1-A | Method Blank | Total/NA | Water | 1664A | 248437 |

TestAmerica Buffalo

Lab Chronicle

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Client Sample ID: MH-2

Date Collected: 06/09/15 10:15

Date Received: 06/10/15 01:55

Lab Sample ID: 480-81856-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 247185 | 06/10/15 17:24 | SWO | TAL BUF |
| Total/NA | Prep | 3510C | | | 247456 | 06/11/15 08:27 | TRG | TAL BUF |
| Total/NA | Analysis | 8270C LL | | 1 | 247517 | 06/11/15 19:04 | DMR | TAL BUF |
| Total/NA | Prep | 3510C | | | 247418 | 06/11/15 07:49 | TRG | TAL BUF |
| Total/NA | Analysis | 608 | | 1 | 247617 | 06/11/15 18:41 | KS | TAL BUF |
| Total/NA | Prep | 200.7 | | | 247320 | 06/11/15 11:16 | TAS | TAL BUF |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 247697 | 06/11/15 23:01 | TRB | TAL BUF |
| Total/NA | Prep | 200.8 | | | 247457 | 06/11/15 08:44 | TAS | TAL BUF |
| Total/NA | Analysis | 200.8 | | 1 | 247779 | 06/11/15 18:12 | MTM2 | TAL BUF |
| Total/NA | Prep | 245.1 | | | 247718 | 06/12/15 10:15 | LRK | TAL BUF |
| Total/NA | Analysis | 245.1 | | 1 | 247860 | 06/12/15 14:44 | LRK | TAL BUF |
| Total/NA | Prep | 1664A | | | 248437 | 06/17/15 02:40 | LAW | TAL BUF |
| Total/NA | Analysis | 1664A | | 1 | 248439 | 06/17/15 03:17 | LAW | TAL BUF |
| Total/NA | Prep | Distill/CN | | | 247483 | 06/11/15 08:52 | NDB | TAL BUF |
| Total/NA | Analysis | 335.4 | | 1 | 247829 | 06/12/15 12:40 | KMF | TAL BUF |
| Total/NA | Prep | Distill/Phenol | | | 247289 | 06/10/15 11:47 | GMG | TAL BUF |
| Total/NA | Analysis | 420.4 | | 1 | 247614 | 06/11/15 12:10 | EKB | TAL BUF |
| Total/NA | Analysis | SM 2540D | | 1 | 247410 | 06/11/15 07:02 | EKB | TAL BUF |
| Total/NA | Analysis | SM 3500 CR D | | 1 | 247285 | 06/10/15 08:45 | DLG | TAL BUF |
| Total/NA | Analysis | SM 3500 CR D | | 1 | 248140 | 06/15/15 15:57 | MTM2 | TAL BUF |

Client Sample ID: CP-1

Date Collected: 06/09/15 13:20

Date Received: 06/10/15 01:55

Lab Sample ID: 480-81856-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 247185 | 06/10/15 17:48 | SWO | TAL BUF |
| Total/NA | Prep | 3510C | | | 247456 | 06/11/15 08:27 | TRG | TAL BUF |
| Total/NA | Analysis | 8270C LL | | 1 | 247517 | 06/11/15 19:34 | DMR | TAL BUF |
| Total/NA | Prep | 3510C | | | 247418 | 06/11/15 07:49 | TRG | TAL BUF |
| Total/NA | Analysis | 608 | | 1 | 247617 | 06/11/15 18:57 | KS | TAL BUF |
| Total/NA | Prep | 200.7 | | | 247320 | 06/11/15 11:16 | TAS | TAL BUF |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 247697 | 06/11/15 23:04 | TRB | TAL BUF |
| Total/NA | Prep | 200.8 | | | 247457 | 06/11/15 08:44 | TAS | TAL BUF |
| Total/NA | Analysis | 200.8 | | 1 | 247779 | 06/11/15 18:18 | MTM2 | TAL BUF |
| Total/NA | Prep | 245.1 | | | 247718 | 06/12/15 10:15 | LRK | TAL BUF |
| Total/NA | Analysis | 245.1 | | 1 | 247860 | 06/12/15 14:45 | LRK | TAL BUF |
| Total/NA | Prep | 1664A | | | 248437 | 06/17/15 02:40 | LAW | TAL BUF |
| Total/NA | Analysis | 1664A | | 1 | 248439 | 06/17/15 03:17 | LAW | TAL BUF |
| Total/NA | Prep | Distill/CN | | | 247483 | 06/11/15 08:52 | NDB | TAL BUF |
| Total/NA | Analysis | 335.4 | | 1 | 247829 | 06/12/15 12:42 | KMF | TAL BUF |
| Total/NA | Prep | Distill/Phenol | | | 247289 | 06/10/15 11:47 | GMG | TAL BUF |
| Total/NA | Analysis | 420.4 | | 1 | 247614 | 06/11/15 12:16 | EKB | TAL BUF |

TestAmerica Buffalo

Lab Chronicle

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Client Sample ID: CP-1

Date Collected: 06/09/15 13:20

Date Received: 06/10/15 01:55

Lab Sample ID: 480-81856-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | SM 2540D | | 1 | 247410 | 06/11/15 07:02 | EKB | TAL BUF |
| Total/NA | Analysis | SM 3500 CR D | | 1 | 247285 | 06/10/15 08:45 | DLG | TAL BUF |
| Total/NA | Analysis | SM 3500 CR D | | 1 | 248140 | 06/15/15 15:57 | MTM2 | TAL BUF |

Client Sample ID: TRIP BLANK

Date Collected: 06/09/15 11:11

Date Received: 06/10/15 01:55

Lab Sample ID: 480-81856-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 247185 | 06/10/15 11:49 | SWO | TAL BUF |

Laboratory References:

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

Certification Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---------------|---------------|------------|------------------|-----------------|
| Massachusetts | State Program | 1 | M-NY044 | 06-30-15 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|-----------------------------|
| 8260C | | Water | Benzene |
| 8260C | | Water | Ethylbenzene |
| 8260C | | Water | m-Xylene & p-Xylene |
| 8260C | | Water | Naphthalene |
| 8260C | | Water | o-Xylene |
| 8260C | | Water | Tert-amyl methyl ether |
| 8260C | | Water | Toluene |
| 8260C | | Water | Total BTEX |
| 8260C | | Water | Xylenes, Total |
| 8270C LL | 3510C | Water | Bis(2-ethylhexyl) phthalate |
| 8270C LL | 3510C | Water | Butyl benzyl phthalate |
| 8270C LL | 3510C | Water | Diethyl phthalate |
| 8270C LL | 3510C | Water | Dimethyl phthalate |
| 8270C LL | 3510C | Water | Di-n-butyl phthalate |
| 8270C LL | 3510C | Water | Di-n-octyl phthalate |
| SM 3500 CR D | | Water | Chromium, hexavalent |
| SM 3500 CR D | | Water | Cr (III) |

Method Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

| Method | Method Description | Protocol | Laboratory |
|---------------|---|-----------|------------|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | TAL BUF |
| 8270C LL | Semivolatile Organic Compounds by GCMS - Low Levels | SW846 | TAL BUF |
| 608 | Polychlorinated Biphenyls (PCBs) (GC) | 40CFR136A | TAL BUF |
| 200.7 Rev 4.4 | Metals (ICP) | EPA | TAL BUF |
| 200.8 | Metals (ICP/MS) | EPA | TAL BUF |
| 245.1 | Mercury (CVAA) | EPA | TAL BUF |
| 1664A | HEM and SGT-HEM | 1664A | TAL BUF |
| 335.4 | Cyanide, Total | MCAWW | TAL BUF |
| 420.4 | Phenolics, Total Recoverable | MCAWW | TAL BUF |
| SM 2540D | Solids, Total Suspended (TSS) | SM | TAL BUF |
| SM 3500 CR D | Chromium, Hexavalent | SM | TAL BUF |
| SM 3500 CR D | Chromium, Trivalent | SM | TAL BUF |

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-81856-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 480-81856-1 | MH-2 | Water | 06/09/15 10:15 | 06/10/15 01:55 |
| 480-81856-2 | CP-1 | Water | 06/09/15 13:20 | 06/10/15 01:55 |
| 480-81856-3 | TRIP BLANK | Water | 06/09/15 11:11 | 06/10/15 01:55 |

TestAmerica Boston

501 Southampton Road
Westfield MA 01085

240 Bear Hill Road --
Waltham MA 02451

Phone: (413) 572-4000 Fax: (303) 467-7247

Phone: (781) 466-6900 Fax: (781) 466-6901

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

| | | | | | | | |
|--|--|--|--|---|--|---|--|
| Client Information: ERM Client Contact: Joshua Klement Company: ERM | | Sample Collector's Name (Please Print Neatly): Becky Mason Sample Collector's Phone: 617-646-7800 E-Mail: | | Lab COC Barcode Label Lab COC Barcode Label | | COC No: 32483 Page: 1 of 1 | |
| Address: One Beacon St, 5th Floor City: Boston, MA 02108 State and Zip: | | Due Date Requested: S-day TAT Turnaround Time (TAT) Requested (business days): | | Job #: 0241099 Preservation Codes: | | Job #: 0241099 Preservation Codes: | |
| Client's Phone: 617-646-7800 Client's Contact Email: james.allen@erm.com Client's Project Name/Number: 0241099 Sample Collection Site Name & Location: PMPS, Plymouth, MA | | Quote # or Project #: 48013058 PO #: 0241099 PWS ID #: | | Due Date Requested: S-day TAT Turnaround Time (TAT) Requested (business days): | | Job #: 0241099 Preservation Codes: | |
| Sample Identification | | Sample Collection Date (MM/DD/YY) | | Sample Collection Time (24 Hour Clock) | | Sample Type: C=Comp G=Grab | |
| MH-2 | | 06/09/15 | | 10:15 | | G | |
| CP-1 | | 06/09/15 | | 13:20 | | G | |
| TRIP Blank | | 06/09/15 | | 11:11 | | G | |
| Matrix Type ** | | Sample Type: C=Comp G=Grab | | Matrix Type ** | | Total Number of Containers (enter total for each line) | |
| Z | | G | | Z | | 16 | |
| Z | | G | | Z | | 14 | |
| Z | | G | | Z | | 14 | |
| Special Instructions & Notes: | | See quote for selected analyte list and required reporting limits. | | 480-81856 Chain of Custody | | Special Instructions & Notes: | |
| Possible Hazard Identification (please check off each that may apply): | | <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month): | | Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month): | |
| Relinquished by: Joshua Klement | | Relinquished by: Becky Mason | | Relinquished by: Becky Mason | | Relinquished by: Becky Mason | |
| Date/Time: 6-9-15 15:15 | | Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 15:45 | | Date/Time: 6-9-15 15:45 | |
| Company: ERM | | Company: ERM | | Company: ERM | | Company: ERM | |
| Relinquished by: Becky Mason | | Relinquished by: Becky Mason | | Relinquished by: Becky Mason | | Relinquished by: Becky Mason | |
| Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | |
| Company: ERM | | Company: ERM | | Company: ERM | | Company: ERM | |
| Relinquished by: Becky Mason | | Relinquished by: Becky Mason | | Relinquished by: Becky Mason | | Relinquished by: Becky Mason | |
| Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | |
| Company: ERM | | Company: ERM | | Company: ERM | | Company: ERM | |
| Relinquished by: Becky Mason | | Relinquished by: Becky Mason | | Relinquished by: Becky Mason | | Relinquished by: Becky Mason | |
| Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | |
| Company: ERM | | Company: ERM | | Company: ERM | | Company: ERM | |
| Relinquished by: Becky Mason | | Relinquished by: Becky Mason | | Relinquished by: Becky Mason | | Relinquished by: Becky Mason | |
| Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | |
| Company: ERM | | Company: ERM | | Company: ERM | | Company: ERM | |
| Relinquished by: Becky Mason | | Relinquished by: Becky Mason | | Relinquished by: Becky Mason | | Relinquished by: Becky Mason | |
| Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | |
| Company: ERM | | Company: ERM | | Company: ERM | | Company: ERM | |
| Relinquished by: Becky Mason | | Relinquished by: Becky Mason | | Relinquished by: Becky Mason | | Relinquished by: Becky Mason | |
| Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | | Date/Time: 6-9-15 17:00 | |
| Company: ERM | | Company: ERM | | Company: ERM | | Company: ERM | |
| Relinquished by: Becky Mason | | Relinquished by: Becky Mason | | Relinquished by: Becky Mason | | | |

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-81856-1

Login Number: 81856

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

| 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 | ERM |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | N/A | |
| Chlorine Residual checked. | True | |

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: 480-82004-1

Client Project/Site: Monitoring Parameters Analysis

For:

ERM-Northeast

One Beacon Steet

5th Floor

Boston, Massachusetts 02108

Attn: Ms. Heather M Usle



Authorized for release by:

6/18/2015 4:50:55 PM

Becky Mason, Project Manager II

(413)572-4000

becky.mason@testamericainc.com

LINKS

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results through

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Have a Question?



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The
Expert**

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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: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Qualifiers

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| * | RPD of the LCS and 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. |

Metals

| 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. |

General Chemistry

| 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 |
| CFL | Contains Free Liquid |
| 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: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Job ID: 480-82004-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt

The samples were received on 6/11/2015 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270C LL: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 480-247573 recovered outside control limits for the following analytes: Diethyl phthalate.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 480-247573.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Client Sample ID: MH-4

Lab Sample ID: 480-82004-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|-------------------|--------|-----------|------|-------|------|-----|-----|---|---------------|-----------|
| Diethyl phthalate | 0.14 | J * | 0.48 | 0.061 | ug/L | 1 | | | 8270C LL | Total/NA |
| Copper | 28.6 | | 10.0 | 1.6 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Iron | 1600 | | 50.0 | 19.3 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Lead | 8.3 | | 5.0 | 3.0 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Nickel | 4.5 | J | 10.0 | 1.3 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Zinc | 77.6 | | 10.0 | 1.5 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Antimony | 0.30 | J | 1.0 | 0.15 | ug/L | 1 | | | 200.8 | Total/NA |

Client Sample ID: MH-5

Lab Sample ID: 480-82004-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------------|--------|-----------|------|------|------|-----|-----|---|---------------|-----------|
| Copper | 3.6 | J | 10.0 | 1.6 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Iron | 115 | | 50.0 | 19.3 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Zinc | 17.9 | | 10.0 | 1.5 | ug/L | 1 | | | 200.7 Rev 4.4 | Total/NA |
| Antimony | 0.23 | J | 1.0 | 0.15 | ug/L | 1 | | | 200.8 | Total/NA |
| Phenolics, Total Recoverable | 6.9 | J | 10.0 | 5.0 | ug/L | 1 | | | 420.4 | Total/NA |
| Analyte | Result | Qualifier | RL | RL | Unit | Dil | Fac | D | Method | Prep Type |
| Total Suspended Solids | 4.8 | | 4.0 | 4.0 | mg/L | 1 | | | SM 2540D | Total/NA |

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-82004-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Client Sample ID: MH-4
Date Collected: 06/10/15 13:35
Date Received: 06/11/15 09:00

Lab Sample ID: 480-82004-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/12/15 17:44 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/12/15 17:44 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/12/15 17:44 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 06/12/15 17:44 | 1 |
| o-Xylene | ND | | 1.0 | 0.76 | ug/L | | | 06/12/15 17:44 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/12/15 17:44 | 1 |
| Total BTEX | ND | | 2.0 | 1.0 | ug/L | | | 06/12/15 17:44 | 1 |
| Naphthalene | ND | | 1.0 | 0.43 | ug/L | | | 06/12/15 17:44 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 102 | | 71 - 126 | | 06/12/15 17:44 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 66 - 137 | | 06/12/15 17:44 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 73 - 120 | | 06/12/15 17:44 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 60 - 140 | | 06/12/15 17:44 | 1 |

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bis(2-ethylhexyl) phthalate | ND | | 4.8 | 0.40 | ug/L | | 06/11/15 14:05 | 06/17/15 16:43 | 1 |
| Butyl benzyl phthalate | ND | | 2.9 | 0.15 | ug/L | | 06/11/15 14:05 | 06/17/15 16:43 | 1 |
| Diethyl phthalate | 0.14 | J * | 0.48 | 0.061 | ug/L | | 06/11/15 14:05 | 06/17/15 16:43 | 1 |
| Dimethyl phthalate | ND | | 0.48 | 0.054 | ug/L | | 06/11/15 14:05 | 06/17/15 16:43 | 1 |
| Di-n-butyl phthalate | ND | | 1.9 | 0.33 | ug/L | | 06/11/15 14:05 | 06/17/15 16:43 | 1 |
| Di-n-octyl phthalate | ND | | 4.8 | 0.19 | ug/L | | 06/11/15 14:05 | 06/17/15 16:43 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 86 | | 39 - 146 | 06/11/15 14:05 | 06/17/15 16:43 | 1 |
| 2-Fluorobiphenyl | 86 | | 37 - 120 | 06/11/15 14:05 | 06/17/15 16:43 | 1 |
| 2-Fluorophenol (Surr) | 44 | | 18 - 120 | 06/11/15 14:05 | 06/17/15 16:43 | 1 |
| Nitrobenzene-d5 (Surr) | 74 | | 34 - 132 | 06/11/15 14:05 | 06/17/15 16:43 | 1 |
| Phenol-d5 (Surr) | 32 | | 11 - 120 | 06/11/15 14:05 | 06/17/15 16:43 | 1 |
| p-Terphenyl-d14 | 99 | | 58 - 147 | 06/11/15 14:05 | 06/17/15 16:43 | 1 |

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | ND | | 0.057 | 0.036 | ug/L | | 06/12/15 08:19 | 06/12/15 21:57 | 1 |
| PCB-1221 | ND | | 0.057 | 0.036 | ug/L | | 06/12/15 08:19 | 06/12/15 21:57 | 1 |
| PCB-1232 | ND | | 0.057 | 0.036 | ug/L | | 06/12/15 08:19 | 06/12/15 21:57 | 1 |
| PCB-1242 | ND | | 0.057 | 0.036 | ug/L | | 06/12/15 08:19 | 06/12/15 21:57 | 1 |
| PCB-1248 | ND | | 0.057 | 0.036 | ug/L | | 06/12/15 08:19 | 06/12/15 21:57 | 1 |
| PCB-1254 | ND | | 0.057 | 0.029 | ug/L | | 06/12/15 08:19 | 06/12/15 21:57 | 1 |
| PCB-1260 | ND | | 0.057 | 0.029 | ug/L | | 06/12/15 08:19 | 06/12/15 21:57 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl | 39 | | 26 - 135 | 06/12/15 08:19 | 06/12/15 21:57 | 1 |
| Tetrachloro-m-xylene | 84 | | 27 - 159 | 06/12/15 08:19 | 06/12/15 21:57 | 1 |

Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic | ND | | 10.0 | 5.6 | ug/L | | 06/12/15 08:00 | 06/12/15 16:59 | 1 |
| Cadmium | ND | | 1.0 | 0.50 | ug/L | | 06/12/15 08:00 | 06/12/15 16:59 | 1 |
| Copper | 28.6 | | 10.0 | 1.6 | ug/L | | 06/12/15 08:00 | 06/12/15 16:59 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Client Sample ID: MH-4

Date Collected: 06/10/15 13:35

Date Received: 06/11/15 09:00

Lab Sample ID: 480-82004-1

Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Iron | 1600 | | 50.0 | 19.3 | ug/L | | 06/12/15 08:00 | 06/12/15 16:59 | 1 |
| Lead | 8.3 | | 5.0 | 3.0 | ug/L | | 06/12/15 08:00 | 06/12/15 16:59 | 1 |
| Nickel | 4.5 | J | 10.0 | 1.3 | ug/L | | 06/12/15 08:00 | 06/12/15 16:59 | 1 |
| Selenium | ND | | 15.0 | 8.7 | ug/L | | 06/12/15 08:00 | 06/12/15 16:59 | 1 |
| Silver | ND | | 3.0 | 1.7 | ug/L | | 06/12/15 08:00 | 06/12/15 16:59 | 1 |
| Zinc | 77.6 | | 10.0 | 1.5 | ug/L | | 06/12/15 08:00 | 06/12/15 16:59 | 1 |

Method: 200.8 - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Antimony | 0.30 | J | 1.0 | 0.15 | ug/L | | 06/15/15 08:10 | 06/15/15 18:34 | 1 |

Method: 245.1 - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.12 | ug/L | | 06/16/15 09:30 | 06/16/15 13:32 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Total Petroleum Hydrocarbons (1664A) | ND | | 4.9 | 1.9 | mg/L | | 06/18/15 12:28 | 06/18/15 12:37 | 1 |
| Cyanide, Total | ND | | 0.010 | 0.0050 | mg/L | | 06/15/15 16:50 | 06/16/15 20:27 | 1 |
| Phenolics, Total Recoverable | ND | | 10.0 | 5.0 | ug/L | | 06/15/15 21:10 | 06/16/15 08:11 | 1 |
| Chromium, hexavalent | ND | | 0.010 | 0.0050 | mg/L | | | 06/11/15 10:10 | 1 |
| Cr (III) | ND | | 0.010 | 0.0060 | mg/L | | | 06/17/15 14:13 | 1 |
| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids | ND | | 4.0 | 4.0 | mg/L | | | 06/14/15 07:10 | 1 |

Client Sample ID: MH-5

Date Collected: 06/10/15 13:55

Date Received: 06/11/15 09:00

Lab Sample ID: 480-82004-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/12/15 18:06 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/12/15 18:06 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/12/15 18:06 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 06/12/15 18:06 | 1 |
| o-Xylene | ND | | 1.0 | 0.76 | ug/L | | | 06/12/15 18:06 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/12/15 18:06 | 1 |
| Total BTEX | ND | | 2.0 | 1.0 | ug/L | | | 06/12/15 18:06 | 1 |
| Naphthalene | ND | | 1.0 | 0.43 | ug/L | | | 06/12/15 18:06 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 105 | | 71 - 126 | | 06/12/15 18:06 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 66 - 137 | | 06/12/15 18:06 | 1 |
| 4-Bromofluorobenzene (Surr) | 101 | | 73 - 120 | | 06/12/15 18:06 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 60 - 140 | | 06/12/15 18:06 | 1 |

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Bis(2-ethylhexyl) phthalate | ND | | 4.7 | 0.40 | ug/L | | 06/11/15 14:05 | 06/17/15 17:13 | 1 |
| Butyl benzyl phthalate | ND | | 2.8 | 0.15 | ug/L | | 06/11/15 14:05 | 06/17/15 17:13 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Client Sample ID: MH-5

Date Collected: 06/10/15 13:55

Date Received: 06/11/15 09:00

Lab Sample ID: 480-82004-2

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Diethyl phthalate | ND | * | 0.47 | 0.061 | ug/L | | 06/11/15 14:05 | 06/17/15 17:13 | 1 |
| Dimethyl phthalate | ND | | 0.47 | 0.054 | ug/L | | 06/11/15 14:05 | 06/17/15 17:13 | 1 |
| Di-n-butyl phthalate | ND | | 1.9 | 0.33 | ug/L | | 06/11/15 14:05 | 06/17/15 17:13 | 1 |
| Di-n-octyl phthalate | ND | | 4.7 | 0.19 | ug/L | | 06/11/15 14:05 | 06/17/15 17:13 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 69 | | 39 - 146 | 06/11/15 14:05 | 06/17/15 17:13 | 1 |
| 2-Fluorobiphenyl | 65 | | 37 - 120 | 06/11/15 14:05 | 06/17/15 17:13 | 1 |
| 2-Fluorophenol (Surr) | 37 | | 18 - 120 | 06/11/15 14:05 | 06/17/15 17:13 | 1 |
| Nitrobenzene-d5 (Surr) | 59 | | 34 - 132 | 06/11/15 14:05 | 06/17/15 17:13 | 1 |
| Phenol-d5 (Surr) | 28 | | 11 - 120 | 06/11/15 14:05 | 06/17/15 17:13 | 1 |
| p-Terphenyl-d14 | 86 | | 58 - 147 | 06/11/15 14:05 | 06/17/15 17:13 | 1 |

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | ND | | 0.063 | 0.040 | ug/L | | 06/12/15 08:19 | 06/12/15 21:41 | 1 |
| PCB-1221 | ND | | 0.063 | 0.040 | ug/L | | 06/12/15 08:19 | 06/12/15 21:41 | 1 |
| PCB-1232 | ND | | 0.063 | 0.040 | ug/L | | 06/12/15 08:19 | 06/12/15 21:41 | 1 |
| PCB-1242 | ND | | 0.063 | 0.040 | ug/L | | 06/12/15 08:19 | 06/12/15 21:41 | 1 |
| PCB-1248 | ND | | 0.063 | 0.040 | ug/L | | 06/12/15 08:19 | 06/12/15 21:41 | 1 |
| PCB-1254 | ND | | 0.063 | 0.033 | ug/L | | 06/12/15 08:19 | 06/12/15 21:41 | 1 |
| PCB-1260 | ND | | 0.063 | 0.033 | ug/L | | 06/12/15 08:19 | 06/12/15 21:41 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl | 56 | | 26 - 135 | 06/12/15 08:19 | 06/12/15 21:41 | 1 |
| Tetrachloro-m-xylene | 79 | | 27 - 159 | 06/12/15 08:19 | 06/12/15 21:41 | 1 |

Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic | ND | | 10.0 | 5.6 | ug/L | | 06/12/15 08:00 | 06/12/15 17:02 | 1 |
| Cadmium | ND | | 1.0 | 0.50 | ug/L | | 06/12/15 08:00 | 06/12/15 17:02 | 1 |
| Copper | 3.6 | J | 10.0 | 1.6 | ug/L | | 06/12/15 08:00 | 06/12/15 17:02 | 1 |
| Iron | 115 | | 50.0 | 19.3 | ug/L | | 06/12/15 08:00 | 06/12/15 17:02 | 1 |
| Lead | ND | | 5.0 | 3.0 | ug/L | | 06/12/15 08:00 | 06/12/15 17:02 | 1 |
| Nickel | ND | | 10.0 | 1.3 | ug/L | | 06/12/15 08:00 | 06/12/15 17:02 | 1 |
| Selenium | ND | | 15.0 | 8.7 | ug/L | | 06/12/15 08:00 | 06/12/15 17:02 | 1 |
| Silver | ND | | 3.0 | 1.7 | ug/L | | 06/12/15 08:00 | 06/12/15 17:02 | 1 |
| Zinc | 17.9 | | 10.0 | 1.5 | ug/L | | 06/12/15 08:00 | 06/12/15 17:02 | 1 |

Method: 200.8 - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Antimony | 0.23 | J | 1.0 | 0.15 | ug/L | | 06/15/15 08:10 | 06/15/15 18:40 | 1 |

Method: 245.1 - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.12 | ug/L | | 06/16/15 09:30 | 06/16/15 13:33 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Total Petroleum Hydrocarbons (1664A) | ND | | 5.0 | 1.9 | mg/L | | 06/18/15 12:28 | 06/18/15 12:37 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Client Sample ID: MH-5

Date Collected: 06/10/15 13:55

Date Received: 06/11/15 09:00

Lab Sample ID: 480-82004-2

Matrix: Water

General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|------------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | ND | | 0.010 | 0.0050 | mg/L | | 06/15/15 16:50 | 06/16/15 20:30 | 1 |
| Phenolics, Total Recoverable | 6.9 | J | 10.0 | 5.0 | ug/L | | 06/17/15 15:37 | 06/18/15 10:05 | 1 |
| Chromium, hexavalent | ND | | 0.010 | 0.0050 | mg/L | | | 06/11/15 10:10 | 1 |
| Cr (III) | ND | | 0.010 | 0.0060 | mg/L | | | 06/17/15 14:13 | 1 |
| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids | 4.8 | | 4.0 | 4.0 | mg/L | | | 06/16/15 09:21 | 1 |

Client Sample ID: TRIP BLANK

Date Collected: 06/10/15 06:00

Date Received: 06/11/15 09:00

Lab Sample ID: 480-82004-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/12/15 18:29 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/12/15 18:29 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/12/15 18:29 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 06/12/15 18:29 | 1 |
| o-Xylene | ND | | 1.0 | 0.76 | ug/L | | | 06/12/15 18:29 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/12/15 18:29 | 1 |
| Total BTEX | ND | | 2.0 | 1.0 | ug/L | | | 06/12/15 18:29 | 1 |
| Naphthalene | ND | | 1.0 | 0.43 | ug/L | | | 06/12/15 18:29 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| <i>Toluene-d8 (Surr)</i> | 104 | | 71 - 126 | | | | | 06/12/15 18:29 | 1 |
| <i>1,2-Dichloroethane-d4 (Surr)</i> | 102 | | 66 - 137 | | | | | 06/12/15 18:29 | 1 |
| <i>4-Bromofluorobenzene (Surr)</i> | 100 | | 73 - 120 | | | | | 06/12/15 18:29 | 1 |
| <i>Dibromofluoromethane (Surr)</i> | 104 | | 60 - 140 | | | | | 06/12/15 18:29 | 1 |

TestAmerica Buffalo

Surrogate Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|------------------|--------------------|--|-------------------|-----------------|------------------|
| | | TOL (71-126) | 12DCE (66-137) | BFB (73-120) | DBFM (60-140) |
| 480-82004-1 | MH-4 | 102 | 100 | 100 | 104 |
| 480-82004-2 | MH-5 | 105 | 98 | 101 | 101 |
| 480-82004-3 | TRIP BLANK | 104 | 102 | 100 | 104 |
| LCS 480-247706/5 | Lab Control Sample | 106 | 94 | 104 | 100 |
| MB 480-247706/7 | Method Blank | 106 | 91 | 104 | 96 |

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|---------------------|------------------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | TBP (39-146) | FBP (37-120) | 2FP (18-120) | NBZ (34-132) | PHL (11-120) | TPH (58-147) |
| 480-82004-1 | MH-4 | 86 | 86 | 44 | 74 | 32 | 99 |
| 480-82004-2 | MH-5 | 69 | 65 | 37 | 59 | 28 | 86 |
| LCS 480-247573/2-A | Lab Control Sample | 83 | 87 | 46 | 81 | 36 | 98 |
| LCSD 480-247573/3-A | Lab Control Sample Dup | 73 | 78 | 50 | 71 | 37 | 88 |
| MB 480-247573/1-A | Method Blank | 70 | 74 | 38 | 61 | 29 | 101 |

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|--------------------|--|------------------|
| | | DCB1 (26-135) | TCX1 (27-159) |
| 480-82004-1 | MH-4 | 39 | 84 |
| 480-82004-2 | MH-5 | 56 | 79 |
| LCS 480-247698/2-A | Lab Control Sample | 52 | 102 |
| MB 480-247698/1-A | Method Blank | 61 | 96 |

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-247706/7

Matrix: Water

Analysis Batch: 247706

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/12/15 11:40 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/12/15 11:40 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/12/15 11:40 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 06/12/15 11:40 | 1 |
| o-Xylene | ND | | 1.0 | 0.76 | ug/L | | | 06/12/15 11:40 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/12/15 11:40 | 1 |
| Total BTEX | ND | | 2.0 | 1.0 | ug/L | | | 06/12/15 11:40 | 1 |
| Naphthalene | ND | | 1.0 | 0.43 | ug/L | | | 06/12/15 11:40 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 106 | | 71 - 126 | | 06/12/15 11:40 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 91 | | 66 - 137 | | 06/12/15 11:40 | 1 |
| 4-Bromofluorobenzene (Surr) | 104 | | 73 - 120 | | 06/12/15 11:40 | 1 |
| Dibromofluoromethane (Surr) | 96 | | 60 - 140 | | 06/12/15 11:40 | 1 |

Lab Sample ID: LCS 480-247706/5

Matrix: Water

Analysis Batch: 247706

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|------|---|------|--------------|
| Benzene | 25.0 | 25.1 | | ug/L | | 100 | 71 - 124 |
| Toluene | 25.0 | 26.2 | | ug/L | | 105 | 80 - 122 |
| Ethylbenzene | 25.0 | 25.3 | | ug/L | | 101 | 77 - 123 |
| m-Xylene & p-Xylene | 25.0 | 25.7 | | ug/L | | 103 | 76 - 122 |
| o-Xylene | 25.0 | 25.9 | | ug/L | | 104 | 76 - 122 |
| Naphthalene | 25.0 | 26.2 | | ug/L | | 105 | 66 - 125 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| Toluene-d8 (Surr) | 106 | | 71 - 126 |
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 104 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 100 | | 60 - 140 |

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 480-247573/1-A

Matrix: Water

Analysis Batch: 248366

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 247573

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Bis(2-ethylhexyl) phthalate | ND | | 5.0 | 0.42 | ug/L | | 06/11/15 14:05 | 06/17/15 15:14 | 1 |
| Butyl benzyl phthalate | ND | | 3.0 | 0.16 | ug/L | | 06/11/15 14:05 | 06/17/15 15:14 | 1 |
| Diethyl phthalate | ND | | 0.50 | 0.064 | ug/L | | 06/11/15 14:05 | 06/17/15 15:14 | 1 |
| Dimethyl phthalate | ND | | 0.50 | 0.057 | ug/L | | 06/11/15 14:05 | 06/17/15 15:14 | 1 |
| Di-n-butyl phthalate | ND | | 2.0 | 0.35 | ug/L | | 06/11/15 14:05 | 06/17/15 15:14 | 1 |
| Di-n-octyl phthalate | ND | | 5.0 | 0.20 | ug/L | | 06/11/15 14:05 | 06/17/15 15:14 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 480-247573/1-A

Matrix: Water

Analysis Batch: 248366

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 247573

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 70 | | 39 - 146 | 06/11/15 14:05 | 06/17/15 15:14 | 1 |
| 2-Fluorobiphenyl | 74 | | 37 - 120 | 06/11/15 14:05 | 06/17/15 15:14 | 1 |
| 2-Fluorophenol (Surr) | 38 | | 18 - 120 | 06/11/15 14:05 | 06/17/15 15:14 | 1 |
| Nitrobenzene-d5 (Surr) | 61 | | 34 - 132 | 06/11/15 14:05 | 06/17/15 15:14 | 1 |
| Phenol-d5 (Surr) | 29 | | 11 - 120 | 06/11/15 14:05 | 06/17/15 15:14 | 1 |
| p-Terphenyl-d14 | 101 | | 58 - 147 | 06/11/15 14:05 | 06/17/15 15:14 | 1 |

Lab Sample ID: LCS 480-247573/2-A

Matrix: Water

Analysis Batch: 248366

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 247573

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Bis(2-ethylhexyl) phthalate | 4.00 | 4.29 | J | ug/L | | 107 | 69 - 136 |
| Butyl benzyl phthalate | 4.00 | 3.98 | | ug/L | | 100 | 58 - 164 |
| Diethyl phthalate | 4.00 | 3.99 | | ug/L | | 100 | 57 - 145 |
| Dimethyl phthalate | 4.00 | 3.77 | | ug/L | | 94 | 55 - 136 |
| Di-n-butyl phthalate | 4.00 | 4.23 | | ug/L | | 106 | 59 - 172 |
| Di-n-octyl phthalate | 4.00 | 4.17 | J | ug/L | | 104 | 76 - 141 |
| Naphthalene | 4.00 | 3.33 | | ug/L | | 83 | 25 - 125 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|------------------|------------------|----------|
| 2,4,6-Tribromophenol (Surr) | 83 | | 39 - 146 |
| 2-Fluorobiphenyl | 87 | | 37 - 120 |
| 2-Fluorophenol (Surr) | 46 | | 18 - 120 |
| Nitrobenzene-d5 (Surr) | 81 | | 34 - 132 |
| Phenol-d5 (Surr) | 36 | | 11 - 120 |
| p-Terphenyl-d14 | 98 | | 58 - 147 |

Lab Sample ID: LCSD 480-247573/3-A

Matrix: Water

Analysis Batch: 248366

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 247573

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|----------------|----------------|-------------------|------|---|------|-----------------|-----|--------------|
| Bis(2-ethylhexyl) phthalate | 4.00 | 3.76 | J | ug/L | | 94 | 69 - 136 | 13 | 15 |
| Butyl benzyl phthalate | 4.00 | 3.51 | | ug/L | | 88 | 58 - 164 | 13 | 16 |
| Diethyl phthalate | 4.00 | 3.42 | * | ug/L | | 85 | 57 - 145 | 16 | 15 |
| Dimethyl phthalate | 4.00 | 3.35 | | ug/L | | 84 | 55 - 136 | 12 | 15 |
| Di-n-butyl phthalate | 4.00 | 3.88 | | ug/L | | 97 | 59 - 172 | 9 | 15 |
| Di-n-octyl phthalate | 4.00 | 3.55 | J | ug/L | | 89 | 76 - 141 | 16 | 16 |
| Naphthalene | 4.00 | 3.08 | | ug/L | | 77 | 25 - 125 | 8 | 29 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|-------------------|-------------------|----------|
| 2,4,6-Tribromophenol (Surr) | 73 | | 39 - 146 |
| 2-Fluorobiphenyl | 78 | | 37 - 120 |
| 2-Fluorophenol (Surr) | 50 | | 18 - 120 |
| Nitrobenzene-d5 (Surr) | 71 | | 34 - 132 |
| Phenol-d5 (Surr) | 37 | | 11 - 120 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 480-247573/3-A

Matrix: Water

Analysis Batch: 248366

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 247573

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------|-------------------|-------------------|----------|
| p-Terphenyl-d14 | 88 | | 58 - 147 |

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 480-247698/1-A

Matrix: Water

Analysis Batch: 247868

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 247698

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------------|-----------------|----------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | ND | | 0.060 | 0.038 | ug/L | | 06/12/15 08:19 | 06/12/15 17:11 | 1 |
| PCB-1221 | ND | | 0.060 | 0.038 | ug/L | | 06/12/15 08:19 | 06/12/15 17:11 | 1 |
| PCB-1232 | ND | | 0.060 | 0.038 | ug/L | | 06/12/15 08:19 | 06/12/15 17:11 | 1 |
| PCB-1242 | ND | | 0.060 | 0.038 | ug/L | | 06/12/15 08:19 | 06/12/15 17:11 | 1 |
| PCB-1248 | ND | | 0.060 | 0.038 | ug/L | | 06/12/15 08:19 | 06/12/15 17:11 | 1 |
| PCB-1254 | ND | | 0.060 | 0.031 | ug/L | | 06/12/15 08:19 | 06/12/15 17:11 | 1 |
| PCB-1260 | ND | | 0.060 | 0.031 | ug/L | | 06/12/15 08:19 | 06/12/15 17:11 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl | 61 | | 26 - 135 | | | | 06/12/15 08:19 | 06/12/15 17:11 | 1 |
| Tetrachloro-m-xylene | 96 | | 27 - 159 | | | | 06/12/15 08:19 | 06/12/15 17:11 | 1 |

Lab Sample ID: LCS 480-247698/2-A

Matrix: Water

Analysis Batch: 247868

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 247698

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|------------------|------------------|------------------|------|---|------|-----------------|
| PCB-1016 | 1.00 | 1.12 | | ug/L | | 112 | 40 - 142 |
| PCB-1260 | 1.00 | 0.944 | | ug/L | | 94 | 67 - 148 |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | |
| DCB Decachlorobiphenyl | 52 | | 26 - 135 | | | | |
| Tetrachloro-m-xylene | 102 | | 27 - 159 | | | | |

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-247568/1-A

Matrix: Water

Analysis Batch: 247976

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 247568

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|------|------|------|---|----------------|----------------|---------|
| Arsenic | ND | | 10.0 | 5.6 | ug/L | | 06/12/15 08:00 | 06/12/15 16:01 | 1 |
| Cadmium | ND | | 1.0 | 0.50 | ug/L | | 06/12/15 08:00 | 06/12/15 16:01 | 1 |
| Copper | ND | | 10.0 | 1.6 | ug/L | | 06/12/15 08:00 | 06/12/15 16:01 | 1 |
| Iron | ND | | 50.0 | 19.3 | ug/L | | 06/12/15 08:00 | 06/12/15 16:01 | 1 |
| Lead | ND | | 5.0 | 3.0 | ug/L | | 06/12/15 08:00 | 06/12/15 16:01 | 1 |
| Nickel | ND | | 10.0 | 1.3 | ug/L | | 06/12/15 08:00 | 06/12/15 16:01 | 1 |
| Selenium | ND | | 15.0 | 8.7 | ug/L | | 06/12/15 08:00 | 06/12/15 16:01 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 480-247568/1-A

Matrix: Water

Analysis Batch: 247976

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 247568

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|-----|------|---|----------------|----------------|---------|
| Silver | ND | | 3.0 | 1.7 | ug/L | | 06/12/15 08:00 | 06/12/15 16:01 | 1 |
| Zinc | ND | | 10.0 | 1.5 | ug/L | | 06/12/15 08:00 | 06/12/15 16:01 | 1 |

Lab Sample ID: LCS 480-247568/2-A

Matrix: Water

Analysis Batch: 247976

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 247568

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Arsenic | 200 | 197.2 | | ug/L | | 99 | 85 - 115 |
| Cadmium | 200 | 196.2 | | ug/L | | 98 | 85 - 115 |
| Copper | 200 | 202.6 | | ug/L | | 101 | 85 - 115 |
| Iron | 10000 | 9527 | | ug/L | | 95 | 85 - 115 |
| Lead | 200 | 192.7 | | ug/L | | 96 | 85 - 115 |
| Nickel | 200 | 193.3 | | ug/L | | 97 | 85 - 115 |
| Selenium | 200 | 204.9 | | ug/L | | 102 | 85 - 115 |
| Silver | 50.0 | 51.02 | | ug/L | | 102 | 85 - 115 |
| Zinc | 200 | 202.2 | | ug/L | | 101 | 85 - 115 |

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 480-247820/1-A

Matrix: Water

Analysis Batch: 248311

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 247820

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Antimony | ND | | 1.0 | 0.15 | ug/L | | 06/15/15 08:10 | 06/15/15 17:21 | 1 |

Lab Sample ID: LCS 480-247820/2-A

Matrix: Water

Analysis Batch: 248311

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 247820

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Antimony | 20.0 | 21.05 | | ug/L | | 105 | 85 - 115 |

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-248221/1-A

Matrix: Water

Analysis Batch: 248365

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248221

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.12 | ug/L | | 06/16/15 09:30 | 06/16/15 13:01 | 1 |

Lab Sample ID: LCS 480-248221/2-A

Matrix: Water

Analysis Batch: 248365

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 248221

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Mercury | 6.67 | 6.90 | | ug/L | | 103 | 85 - 115 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 480-248836/1-A

Matrix: Water

Analysis Batch: 248837

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248836

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Total Petroleum Hydrocarbons (1664A) | ND | | 5.0 | 1.9 | mg/L | | 06/18/15 12:28 | 06/18/15 12:37 | 1 |

Lab Sample ID: LCS 480-248836/2-A

Matrix: Water

Analysis Batch: 248837

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 248836

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Petroleum Hydrocarbons (1664A) | 20.0 | 13.90 | | mg/L | | 69 | 64 - 132 |

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-248156/1-A

Matrix: Water

Analysis Batch: 248425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248156

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|--------------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | ND | | 0.010 | 0.0050 | mg/L | | 06/15/15 16:50 | 06/16/15 20:17 | 1 |

Lab Sample ID: LCS 480-248156/2-A

Matrix: Water

Analysis Batch: 248425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 248156

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|------|---|------|--------------|
| Cyanide, Total | 0.400 | 0.398 | | mg/L | | 100 | 90 - 110 |

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-248181/1-A

Matrix: Water

Analysis Batch: 248256

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248181

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|--------------|------|-----|------|---|----------------|----------------|---------|
| Phenolics, Total Recoverable | ND | | 10.0 | 5.0 | ug/L | | 06/15/15 21:10 | 06/16/15 06:41 | 1 |

Lab Sample ID: LCS 480-248181/2-A

Matrix: Water

Analysis Batch: 248256

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 248181

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Phenolics, Total Recoverable | 100 | 98.44 | | ug/L | | 98 | 90 - 110 |

Lab Sample ID: 480-82004-1 DU

Matrix: Water

Analysis Batch: 248256

Client Sample ID: MH-4

Prep Type: Total/NA

Prep Batch: 248181

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Phenolics, Total Recoverable | ND | | ND | | ug/L | | NC | 20 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: MB 480-248628/1-A

Matrix: Water

Analysis Batch: 248809

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248628

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------------|------|-----|------|---|----------------|----------------|---------|
| Phenolics, Total Recoverable | ND | | 10.0 | 5.0 | ug/L | | 06/17/15 15:37 | 06/18/15 07:07 | 1 |

Lab Sample ID: LCS 480-248628/2-A

Matrix: Water

Analysis Batch: 248809

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 248628

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Phenolics, Total Recoverable | 100 | 97.36 | | ug/L | | 97 | 90 - 110 |

Lab Sample ID: 480-82004-2 MS

Matrix: Water

Analysis Batch: 248809

Client Sample ID: MH-5

Prep Type: Total/NA

Prep Batch: 248628

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|-----------------|
| Phenolics, Total Recoverable | 6.9 | J | 100 | 110.7 | | ug/L | | 104 | 90 - 110 |

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-247942/1

Matrix: Water

Analysis Batch: 247942

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------------|-----------------|-----|-----|------|---|----------|----------------|---------|
| Total Suspended Solids | ND | | 4.0 | 4.0 | mg/L | | | 06/14/15 07:10 | 1 |

Lab Sample ID: LCS 480-247942/2

Matrix: Water

Analysis Batch: 247942

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Total Suspended Solids | 242 | 245.6 | | mg/L | | 101 | 88 - 110 |

Lab Sample ID: 480-82004-1 DU

Matrix: Water

Analysis Batch: 247942

Client Sample ID: MH-4

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|------------------|---------------------|--------------|-----------------|------|---|-----|--------------|
| Total Suspended Solids | ND | | ND | | mg/L | | NC | 15 |

Lab Sample ID: MB 480-248261/1

Matrix: Water

Analysis Batch: 248261

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------------|-----------------|-----|-----|------|---|----------|----------------|---------|
| Total Suspended Solids | ND | | 4.0 | 4.0 | mg/L | | | 06/16/15 09:21 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 480-248261/2
Matrix: Water
Analysis Batch: 248261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Suspended Solids | 249 | 252.0 | | mg/L | - | 101 | 88 - 110 |

Method: SM 3500 CR D - Chromium, Hexavalent

Lab Sample ID: MB 480-247643/3
Matrix: Water
Analysis Batch: 247643

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Chromium, hexavalent | ND | | 0.010 | 0.0050 | mg/L | - | | 06/11/15 10:10 | 1 |

Lab Sample ID: LCS 480-247643/4
Matrix: Water
Analysis Batch: 247643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|------|---|------|--------------|
| Chromium, hexavalent | 0.0500 | 0.0571 | | mg/L | - | 114 | 85 - 115 |

Lab Sample ID: 480-82004-2 DU
Matrix: Water
Analysis Batch: 247643

Client Sample ID: MH-5
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Chromium, hexavalent | ND | | ND | | mg/L | - | NC | 15 |

QC Association Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

GC/MS VOA

Analysis Batch: 247706

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | 8260C | |
| 480-82004-2 | MH-5 | Total/NA | Water | 8260C | |
| 480-82004-3 | TRIP BLANK | Total/NA | Water | 8260C | |
| LCS 480-247706/5 | Lab Control Sample | Total/NA | Water | 8260C | |
| MB 480-247706/7 | Method Blank | Total/NA | Water | 8260C | |

GC/MS Semi VOA

Prep Batch: 247573

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | 3510C | |
| 480-82004-2 | MH-5 | Total/NA | Water | 3510C | |
| LCS 480-247573/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 480-247573/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| MB 480-247573/1-A | Method Blank | Total/NA | Water | 3510C | |

Analysis Batch: 248366

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | 8270C LL | 247573 |
| 480-82004-2 | MH-5 | Total/NA | Water | 8270C LL | 247573 |
| LCS 480-247573/2-A | Lab Control Sample | Total/NA | Water | 8270C LL | 247573 |
| LCSD 480-247573/3-A | Lab Control Sample Dup | Total/NA | Water | 8270C LL | 247573 |
| MB 480-247573/1-A | Method Blank | Total/NA | Water | 8270C LL | 247573 |

GC Semi VOA

Prep Batch: 247698

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | 3510C | |
| 480-82004-2 | MH-5 | Total/NA | Water | 3510C | |
| LCS 480-247698/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| MB 480-247698/1-A | Method Blank | Total/NA | Water | 3510C | |

Analysis Batch: 247868

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | 608 | 247698 |
| 480-82004-2 | MH-5 | Total/NA | Water | 608 | 247698 |
| LCS 480-247698/2-A | Lab Control Sample | Total/NA | Water | 608 | 247698 |
| MB 480-247698/1-A | Method Blank | Total/NA | Water | 608 | 247698 |

Metals

Prep Batch: 247568

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | 200.7 | |
| 480-82004-2 | MH-5 | Total/NA | Water | 200.7 | |
| LCS 480-247568/2-A | Lab Control Sample | Total/NA | Water | 200.7 | |
| MB 480-247568/1-A | Method Blank | Total/NA | Water | 200.7 | |

TestAmerica Buffalo

QC Association Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Metals (Continued)

Prep Batch: 247820

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | 200.8 | |
| 480-82004-2 | MH-5 | Total/NA | Water | 200.8 | |
| LCS 480-247820/2-A | Lab Control Sample | Total/NA | Water | 200.8 | |
| MB 480-247820/1-A | Method Blank | Total/NA | Water | 200.8 | |

Analysis Batch: 247976

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|---------------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | 200.7 Rev 4.4 | 247568 |
| 480-82004-2 | MH-5 | Total/NA | Water | 200.7 Rev 4.4 | 247568 |
| LCS 480-247568/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | 247568 |
| MB 480-247568/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | 247568 |

Prep Batch: 248221

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | 245.1 | |
| 480-82004-2 | MH-5 | Total/NA | Water | 245.1 | |
| LCS 480-248221/2-A | Lab Control Sample | Total/NA | Water | 245.1 | |
| MB 480-248221/1-A | Method Blank | Total/NA | Water | 245.1 | |

Analysis Batch: 248311

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | 200.8 | 247820 |
| 480-82004-2 | MH-5 | Total/NA | Water | 200.8 | 247820 |
| LCS 480-247820/2-A | Lab Control Sample | Total/NA | Water | 200.8 | 247820 |
| MB 480-247820/1-A | Method Blank | Total/NA | Water | 200.8 | 247820 |

Analysis Batch: 248365

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | 245.1 | 248221 |
| 480-82004-2 | MH-5 | Total/NA | Water | 245.1 | 248221 |
| LCS 480-248221/2-A | Lab Control Sample | Total/NA | Water | 245.1 | 248221 |
| MB 480-248221/1-A | Method Blank | Total/NA | Water | 245.1 | 248221 |

General Chemistry

Analysis Batch: 247643

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | SM 3500 CR D | |
| 480-82004-2 | MH-5 | Total/NA | Water | SM 3500 CR D | |
| 480-82004-2 DU | MH-5 | Total/NA | Water | SM 3500 CR D | |
| LCS 480-247643/4 | Lab Control Sample | Total/NA | Water | SM 3500 CR D | |
| MB 480-247643/3 | Method Blank | Total/NA | Water | SM 3500 CR D | |

Analysis Batch: 247942

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | SM 2540D | |
| 480-82004-1 DU | MH-4 | Total/NA | Water | SM 2540D | |
| LCS 480-247942/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| MB 480-247942/1 | Method Blank | Total/NA | Water | SM 2540D | |

TestAmerica Buffalo

QC Association Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

General Chemistry (Continued)

Prep Batch: 248156

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | Distill/CN | |
| 480-82004-2 | MH-5 | Total/NA | Water | Distill/CN | |
| LCS 480-248156/2-A | Lab Control Sample | Total/NA | Water | Distill/CN | |
| MB 480-248156/1-A | Method Blank | Total/NA | Water | Distill/CN | |

Prep Batch: 248181

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|----------------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | Distill/Phenol | |
| 480-82004-1 DU | MH-4 | Total/NA | Water | Distill/Phenol | |
| LCS 480-248181/2-A | Lab Control Sample | Total/NA | Water | Distill/Phenol | |
| MB 480-248181/1-A | Method Blank | Total/NA | Water | Distill/Phenol | |

Analysis Batch: 248256

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | 420.4 | 248181 |
| 480-82004-1 DU | MH-4 | Total/NA | Water | 420.4 | 248181 |
| LCS 480-248181/2-A | Lab Control Sample | Total/NA | Water | 420.4 | 248181 |
| MB 480-248181/1-A | Method Blank | Total/NA | Water | 420.4 | 248181 |

Analysis Batch: 248261

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 480-82004-2 | MH-5 | Total/NA | Water | SM 2540D | |
| LCS 480-248261/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| MB 480-248261/1 | Method Blank | Total/NA | Water | SM 2540D | |

Analysis Batch: 248425

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | 335.4 | 248156 |
| 480-82004-2 | MH-5 | Total/NA | Water | 335.4 | 248156 |
| LCS 480-248156/2-A | Lab Control Sample | Total/NA | Water | 335.4 | 248156 |
| MB 480-248156/1-A | Method Blank | Total/NA | Water | 335.4 | 248156 |

Analysis Batch: 248605

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | SM 3500 CR D | |
| 480-82004-2 | MH-5 | Total/NA | Water | SM 3500 CR D | |

Prep Batch: 248628

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|----------------|------------|
| 480-82004-2 | MH-5 | Total/NA | Water | Distill/Phenol | |
| 480-82004-2 MS | MH-5 | Total/NA | Water | Distill/Phenol | |
| LCS 480-248628/2-A | Lab Control Sample | Total/NA | Water | Distill/Phenol | |
| MB 480-248628/1-A | Method Blank | Total/NA | Water | Distill/Phenol | |

Analysis Batch: 248809

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82004-2 | MH-5 | Total/NA | Water | 420.4 | 248628 |
| 480-82004-2 MS | MH-5 | Total/NA | Water | 420.4 | 248628 |
| LCS 480-248628/2-A | Lab Control Sample | Total/NA | Water | 420.4 | 248628 |
| MB 480-248628/1-A | Method Blank | Total/NA | Water | 420.4 | 248628 |

TestAmerica Buffalo

QC Association Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

General Chemistry (Continued)

Prep Batch: 248836

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | 1664A | |
| 480-82004-2 | MH-5 | Total/NA | Water | 1664A | |
| LCS 480-248836/2-A | Lab Control Sample | Total/NA | Water | 1664A | |
| MB 480-248836/1-A | Method Blank | Total/NA | Water | 1664A | |

Analysis Batch: 248837

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82004-1 | MH-4 | Total/NA | Water | 1664A | 248836 |
| 480-82004-2 | MH-5 | Total/NA | Water | 1664A | 248836 |
| LCS 480-248836/2-A | Lab Control Sample | Total/NA | Water | 1664A | 248836 |
| MB 480-248836/1-A | Method Blank | Total/NA | Water | 1664A | 248836 |

Lab Chronicle

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Client Sample ID: MH-4

Date Collected: 06/10/15 13:35

Date Received: 06/11/15 09:00

Lab Sample ID: 480-82004-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 247706 | 06/12/15 17:44 | SWO | TAL BUF |
| Total/NA | Prep | 3510C | | | 247573 | 06/11/15 14:05 | CPH | TAL BUF |
| Total/NA | Analysis | 8270C LL | | 1 | 248366 | 06/17/15 16:43 | DMR | TAL BUF |
| Total/NA | Prep | 3510C | | | 247698 | 06/12/15 08:19 | JLS | TAL BUF |
| Total/NA | Analysis | 608 | | 1 | 247868 | 06/12/15 21:57 | KS | TAL BUF |
| Total/NA | Prep | 200.7 | | | 247568 | 06/12/15 08:00 | TAS | TAL BUF |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 247976 | 06/12/15 16:59 | AMH | TAL BUF |
| Total/NA | Prep | 200.8 | | | 247820 | 06/15/15 08:10 | TAS | TAL BUF |
| Total/NA | Analysis | 200.8 | | 1 | 248311 | 06/15/15 18:34 | MTM2 | TAL BUF |
| Total/NA | Prep | 245.1 | | | 248221 | 06/16/15 09:30 | LRK | TAL BUF |
| Total/NA | Analysis | 245.1 | | 1 | 248365 | 06/16/15 13:32 | LRK | TAL BUF |
| Total/NA | Prep | 1664A | | | 248836 | 06/18/15 12:28 | MDL | TAL BUF |
| Total/NA | Analysis | 1664A | | 1 | 248837 | 06/18/15 12:37 | MDL | TAL BUF |
| Total/NA | Prep | Distill/CN | | | 248156 | 06/15/15 16:50 | NDB | TAL BUF |
| Total/NA | Analysis | 335.4 | | 1 | 248425 | 06/16/15 20:27 | JME | TAL BUF |
| Total/NA | Prep | Distill/Phenol | | | 248181 | 06/15/15 21:10 | CLT | TAL BUF |
| Total/NA | Analysis | 420.4 | | 1 | 248256 | 06/16/15 08:11 | EKB | TAL BUF |
| Total/NA | Analysis | SM 2540D | | 1 | 247942 | 06/14/15 07:10 | EKB | TAL BUF |
| Total/NA | Analysis | SM 3500 CR D | | 1 | 247643 | 06/11/15 10:10 | EGS | TAL BUF |
| Total/NA | Analysis | SM 3500 CR D | | 1 | 248605 | 06/17/15 14:13 | LMH | TAL BUF |

Client Sample ID: MH-5

Date Collected: 06/10/15 13:55

Date Received: 06/11/15 09:00

Lab Sample ID: 480-82004-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 247706 | 06/12/15 18:06 | SWO | TAL BUF |
| Total/NA | Prep | 3510C | | | 247573 | 06/11/15 14:05 | CPH | TAL BUF |
| Total/NA | Analysis | 8270C LL | | 1 | 248366 | 06/17/15 17:13 | DMR | TAL BUF |
| Total/NA | Prep | 3510C | | | 247698 | 06/12/15 08:19 | JLS | TAL BUF |
| Total/NA | Analysis | 608 | | 1 | 247868 | 06/12/15 21:41 | KS | TAL BUF |
| Total/NA | Prep | 200.7 | | | 247568 | 06/12/15 08:00 | TAS | TAL BUF |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 247976 | 06/12/15 17:02 | AMH | TAL BUF |
| Total/NA | Prep | 200.8 | | | 247820 | 06/15/15 08:10 | TAS | TAL BUF |
| Total/NA | Analysis | 200.8 | | 1 | 248311 | 06/15/15 18:40 | MTM2 | TAL BUF |
| Total/NA | Prep | 245.1 | | | 248221 | 06/16/15 09:30 | LRK | TAL BUF |
| Total/NA | Analysis | 245.1 | | 1 | 248365 | 06/16/15 13:33 | LRK | TAL BUF |
| Total/NA | Prep | 1664A | | | 248836 | 06/18/15 12:28 | MDL | TAL BUF |
| Total/NA | Analysis | 1664A | | 1 | 248837 | 06/18/15 12:37 | MDL | TAL BUF |
| Total/NA | Prep | Distill/CN | | | 248156 | 06/15/15 16:50 | NDB | TAL BUF |
| Total/NA | Analysis | 335.4 | | 1 | 248425 | 06/16/15 20:30 | JME | TAL BUF |
| Total/NA | Prep | Distill/Phenol | | | 248628 | 06/17/15 15:37 | GMG | TAL BUF |
| Total/NA | Analysis | 420.4 | | 1 | 248809 | 06/18/15 10:05 | EKB | TAL BUF |

TestAmerica Buffalo

Lab Chronicle

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Client Sample ID: MH-5

Date Collected: 06/10/15 13:55

Date Received: 06/11/15 09:00

Lab Sample ID: 480-82004-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | SM 2540D | | 1 | 248261 | 06/16/15 09:21 | EKB | TAL BUF |
| Total/NA | Analysis | SM 3500 CR D | | 1 | 247643 | 06/11/15 10:10 | EGS | TAL BUF |
| Total/NA | Analysis | SM 3500 CR D | | 1 | 248605 | 06/17/15 14:13 | LMH | TAL BUF |

Client Sample ID: TRIP BLANK

Date Collected: 06/10/15 06:00

Date Received: 06/11/15 09:00

Lab Sample ID: 480-82004-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 247706 | 06/12/15 18:29 | SWO | TAL BUF |

Laboratory References:

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

Certification Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---------------|---------------|------------|------------------|-----------------|
| Massachusetts | State Program | 1 | M-NY044 | 06-30-15 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|-----------------------------|
| 8260C | | Water | Benzene |
| 8260C | | Water | Ethylbenzene |
| 8260C | | Water | m-Xylene & p-Xylene |
| 8260C | | Water | Naphthalene |
| 8260C | | Water | o-Xylene |
| 8260C | | Water | Toluene |
| 8260C | | Water | Total BTEX |
| 8260C | | Water | Xylenes, Total |
| 8270C LL | 3510C | Water | Bis(2-ethylhexyl) phthalate |
| 8270C LL | 3510C | Water | Butyl benzyl phthalate |
| 8270C LL | 3510C | Water | Diethyl phthalate |
| 8270C LL | 3510C | Water | Dimethyl phthalate |
| 8270C LL | 3510C | Water | Di-n-butyl phthalate |
| 8270C LL | 3510C | Water | Di-n-octyl phthalate |
| SM 3500 CR D | | Water | Chromium, hexavalent |
| SM 3500 CR D | | Water | Cr (III) |

Method Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

| Method | Method Description | Protocol | Laboratory |
|---------------|---|-----------|------------|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | TAL BUF |
| 8270C LL | Semivolatile Organic Compounds by GCMS - Low Levels | SW846 | TAL BUF |
| 608 | Polychlorinated Biphenyls (PCBs) (GC) | 40CFR136A | TAL BUF |
| 200.7 Rev 4.4 | Metals (ICP) | EPA | TAL BUF |
| 200.8 | Metals (ICP/MS) | EPA | TAL BUF |
| 245.1 | Mercury (CVAA) | EPA | TAL BUF |
| 1664A | HEM and SGT-HEM | 1664A | TAL BUF |
| 335.4 | Cyanide, Total | MCAWW | TAL BUF |
| 420.4 | Phenolics, Total Recoverable | MCAWW | TAL BUF |
| SM 2540D | Solids, Total Suspended (TSS) | SM | TAL BUF |
| SM 3500 CR D | Chromium, Hexavalent | SM | TAL BUF |
| SM 3500 CR D | Chromium, Trivalent | SM | TAL BUF |

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82004-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 480-82004-1 | MH-4 | Water | 06/10/15 13:35 | 06/11/15 09:00 |
| 480-82004-2 | MH-5 | Water | 06/10/15 13:55 | 06/11/15 09:00 |
| 480-82004-3 | TRIP BLANK | Water | 06/10/15 06:00 | 06/11/15 09:00 |

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
240 Bear Hill Road - Suite 104
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Phone: (781) 466-8900 Fax: (781) 466-8901

Chain of

TestAmerica
ENVIRONMENTAL TESTING



480-82004 Chain of Custody

| | | | | | |
|--|-------|--|----------------------------|--|--|
| Client Information: ERM | | Sample Collector's Name (Please Print Neatly): Becky Mason | | Lab PM: Becky Mason | |
| Client Contact: Joshua Klement | | Sample Collector's Phone: 617-646-7800 | | E-Mail: | |
| Company: ERM | | Due Date Requested: 5-day TAT | | Turnaround Time (TAT) Requested (business days): 5-day TAT | |
| Address: One Beacon St, 5th Floor | | City: Boston, MA 02108 | | State and Zip: | |
| Client's Phone: 617-646-7800 | | Quote # or Project #: 4802058 | | PO #: | |
| Client's Contact Email: james.allen@erm.com | | WO #: | | PWS ID #: | |
| Client's Project Name/Number: 0241099 | | Sample Collection Site Name & Location: PUPS, Plymouth, MA | | Sample Identification | |
| Sample Collection Date (MM/DD/YY) | | Sample Collection Time (24 Hour Clock) | Sample Type: C=Comp G=Grab | Matrix Type ** | |
| 06/10/15 | 06:00 | G | Z | | |
| 11 | 13:35 | G | Z | | |
| 11 | 13:55 | G | Z | | |
| 06/10/15 | 06:00 | G | Z | | |
| Possible Hazard Identification (please check off each that may apply): <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | | | | |
| ** Matrix Types: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: storm water | | | | | |
| Relinquished by: Joshua Klement | | Date/Time: 6-10-15 - 16:35 | | Company: | |
| Relinquished by: | | Date/Time: | | Company: | |
| Relinquished by: | | Date/Time: | | Company: | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: | |

| | | | |
|--------------------------------------|---------------------------------------|--------------------------------|--|
| Page: 1 of 1 | | Job #: | |
| Preservation Codes: | | Special Instructions & Notes: | |
| A - Hydrochloric Acid | J - Deionized Water | See quote for | |
| B - Sodium Hydroxide | M - Hexane | selected analyte | |
| C - Zinc Acetate | N - No Preservative | list and required | |
| D - Nitric Acid | P - Sodium Sulfate | reporting limits | |
| E - Sodium Bisulfite | Q - Sodium Sulfite | for each lab | |
| F - Methanol | R - Sodium Thiosulfate | analysis selected. | |
| G - Ascorbic Acid | S - Sulfuric Acid | | |
| H - other (specify) | Z - other (specify) | | |
| Regulatory Programs: | | SUBCONTRACT POLICY: | |
| MCP <input type="checkbox"/> | GW1/S1 <input type="checkbox"/> | Unless you provide in- | |
| RCP <input type="checkbox"/> | CT RSR <input type="checkbox"/> | structions to the contrary, or | |
| DEP Form <input type="checkbox"/> | EDD Required <input type="checkbox"/> | specify which sub-contract | |
| eDEP Filing <input type="checkbox"/> | NPDES <input type="checkbox"/> | any additional notification | |
| | | made by us, as necessary | |
| | | labs are or are not to be | |
| | | used, you agree in | |
| | | to fulfill your work order. | |

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-82004-1

Login Number: 82004

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

| 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 | erm |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | N/A | |
| Chlorine Residual checked. | True | |

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: 480-82179-1

Client Project/Site: Monitoring Parameters Analysis

For:

ERM-Northeast

One Beacon Steet

5th Floor

Boston, Massachusetts 02108

Attn: Ms. Heather M Usle



Authorized for release by:

6/19/2015 4:13:28 PM

Becky Mason, Project Manager II

(413)572-4000

becky.mason@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: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Qualifiers

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

General Chemistry

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| 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 |
| CFL | Contains Free Liquid |
| 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: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Job ID: 480-82179-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt

The samples were received on 6/13/2015 2:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.2° C, 0.4° C and 0.6° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-248229 and analytical batch 480-248921 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method 200.8: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: MH-L (480-82179-4), (480-82179-I-4-B MS ^), (480-82179-I-4-C MSD), (480-82179-I-4-A PDS) and (480-82179-I-4-A SD ^).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 1664A: The method blank for preparation batch 480-248836 and analytical batch 480-248837 contained Hexane Extractable Material 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 additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Client Sample ID: CP-4

Lab Sample ID: 480-82179-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|------|-------|------|---------|---|---------------|-----------|
| Diethyl phthalate | 0.11 | J | 0.47 | 0.061 | ug/L | 1 | | 8270D LL | Total/NA |
| Cadmium | 2.1 | | 1.0 | 0.50 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Copper | 10.7 | | 10.0 | 1.6 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Iron | 1150 | | 50.0 | 19.3 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Nickel | 1.5 | J B | 10.0 | 1.3 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Zinc | 233 | | 10.0 | 1.5 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Antimony | 1.0 | | 1.0 | 0.15 | ug/L | 1 | | 200.8 | Total/NA |
| Analyte | Result | Qualifier | RL | RL | Unit | Dil Fac | D | Method | Prep Type |
| Total Suspended Solids | 4.4 | | 4.0 | 4.0 | mg/L | 1 | | SM 2540D | Total/NA |

Client Sample ID: MH-Q

Lab Sample ID: 480-82179-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------|--------|-----------|------|-------|------|---------|---|---------------|-----------|
| Diethyl phthalate | 0.11 | J | 0.47 | 0.061 | ug/L | 1 | | 8270D LL | Total/NA |
| Copper | 4.1 | J | 10.0 | 1.6 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Iron | 439 | | 50.0 | 19.3 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Lead | 15.4 | | 5.0 | 3.0 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Nickel | 3.4 | J B | 10.0 | 1.3 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Zinc | 1520 | | 10.0 | 1.5 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Antimony | 0.34 | J | 1.0 | 0.15 | ug/L | 1 | | 200.8 | Total/NA |

Client Sample ID: DUP-1

Lab Sample ID: 480-82179-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------|--------|-----------|------|-------|------|---------|---|---------------|-----------|
| Diethyl phthalate | 0.12 | J | 0.47 | 0.061 | ug/L | 1 | | 8270D LL | Total/NA |
| Copper | 4.6 | J | 10.0 | 1.6 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Iron | 451 | | 50.0 | 19.3 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Lead | 15.9 | | 5.0 | 3.0 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Nickel | 3.6 | J B | 10.0 | 1.3 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Zinc | 1540 | | 10.0 | 1.5 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Antimony | 0.33 | J | 1.0 | 0.15 | ug/L | 1 | | 200.8 | Total/NA |

Client Sample ID: MH-L

Lab Sample ID: 480-82179-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------|--------|-----------|-------|--------|------|---------|---|---------------|-----------|
| Copper | 14.2 | | 10.0 | 1.6 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Iron | 94.4 | | 50.0 | 19.3 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Lead | 3.9 | J | 5.0 | 3.0 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Nickel | 2.9 | J B | 10.0 | 1.3 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Zinc | 27.1 | | 10.0 | 1.5 | ug/L | 1 | | 200.7 Rev 4.4 | Total/NA |
| Antimony | 0.51 | J | 2.0 | 0.30 | ug/L | 2 | | 200.8 | Total/NA |
| Cyanide, Total | 0.0053 | J | 0.010 | 0.0050 | mg/L | 1 | | 335.4 | Total/NA |
| Phenolics, Total Recoverable | 17.1 | | 10.0 | 5.0 | ug/L | 1 | | 420.4 | Total/NA |

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-82179-5

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-82179-6

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Client Sample ID: CP-4

Date Collected: 06/11/15 09:20

Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/16/15 03:47 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/16/15 03:47 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/16/15 03:47 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 06/16/15 03:47 | 1 |
| o-Xylene | ND | | 1.0 | 0.76 | ug/L | | | 06/16/15 03:47 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/16/15 03:47 | 1 |
| Total BTEX | ND | | 2.0 | 1.0 | ug/L | | | 06/16/15 03:47 | 1 |
| Naphthalene | ND | | 1.0 | 0.43 | ug/L | | | 06/16/15 03:47 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 97 | | 71 - 126 | | | | | 06/16/15 03:47 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 66 - 137 | | | | | 06/16/15 03:47 | 1 |
| 4-Bromofluorobenzene (Surr) | 95 | | 73 - 120 | | | | | 06/16/15 03:47 | 1 |
| Dibromofluoromethane (Surr) | 100 | | 60 - 140 | | | | | 06/16/15 03:47 | 1 |

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| Bis(2-ethylhexyl) phthalate | ND | F1 | 4.7 | 0.40 | ug/L | | 06/16/15 08:39 | 06/19/15 01:08 | 1 |
| Butyl benzyl phthalate | ND | | 2.8 | 0.15 | ug/L | | 06/16/15 08:39 | 06/19/15 01:08 | 1 |
| Diethyl phthalate | 0.11 | J | 0.47 | 0.061 | ug/L | | 06/16/15 08:39 | 06/19/15 01:08 | 1 |
| Dimethyl phthalate | ND | | 0.47 | 0.054 | ug/L | | 06/16/15 08:39 | 06/19/15 01:08 | 1 |
| Di-n-butyl phthalate | ND | | 1.9 | 0.33 | ug/L | | 06/16/15 08:39 | 06/19/15 01:08 | 1 |
| Di-n-octyl phthalate | ND | F1 | 4.7 | 0.19 | ug/L | | 06/16/15 08:39 | 06/19/15 01:08 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol (Surr) | 110 | | 39 - 146 | | | | 06/16/15 08:39 | 06/19/15 01:08 | 1 |
| 2-Fluorobiphenyl | 72 | | 37 - 120 | | | | 06/16/15 08:39 | 06/19/15 01:08 | 1 |
| 2-Fluorophenol (Surr) | 34 | | 18 - 120 | | | | 06/16/15 08:39 | 06/19/15 01:08 | 1 |
| Nitrobenzene-d5 (Surr) | 60 | | 34 - 132 | | | | 06/16/15 08:39 | 06/19/15 01:08 | 1 |
| Phenol-d5 (Surr) | 22 | | 11 - 120 | | | | 06/16/15 08:39 | 06/19/15 01:08 | 1 |
| p-Terphenyl-d14 | 95 | | 58 - 147 | | | | 06/16/15 08:39 | 06/19/15 01:08 | 1 |

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | ND | | 0.057 | 0.036 | ug/L | | 06/16/15 08:53 | 06/17/15 02:45 | 1 |
| PCB-1221 | ND | | 0.057 | 0.036 | ug/L | | 06/16/15 08:53 | 06/17/15 02:45 | 1 |
| PCB-1232 | ND | | 0.057 | 0.036 | ug/L | | 06/16/15 08:53 | 06/17/15 02:45 | 1 |
| PCB-1242 | ND | | 0.057 | 0.036 | ug/L | | 06/16/15 08:53 | 06/17/15 02:45 | 1 |
| PCB-1248 | ND | | 0.057 | 0.036 | ug/L | | 06/16/15 08:53 | 06/17/15 02:45 | 1 |
| PCB-1254 | ND | | 0.057 | 0.029 | ug/L | | 06/16/15 08:53 | 06/17/15 02:45 | 1 |
| PCB-1260 | ND | | 0.057 | 0.029 | ug/L | | 06/16/15 08:53 | 06/17/15 02:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl | 39 | | 26 - 135 | | | | 06/16/15 08:53 | 06/17/15 02:45 | 1 |
| Tetrachloro-m-xylene | 95 | | 27 - 159 | | | | 06/16/15 08:53 | 06/17/15 02:45 | 1 |

Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic | ND | | 10.0 | 5.6 | ug/L | | 06/15/15 11:35 | 06/16/15 10:58 | 1 |
| Cadmium | 2.1 | | 1.0 | 0.50 | ug/L | | 06/15/15 11:35 | 06/16/15 10:58 | 1 |
| Copper | 10.7 | | 10.0 | 1.6 | ug/L | | 06/15/15 11:35 | 06/16/15 10:58 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Client Sample ID: CP-4

Date Collected: 06/11/15 09:20

Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-1

Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Iron | 1150 | | 50.0 | 19.3 | ug/L | | 06/15/15 11:35 | 06/16/15 10:58 | 1 |
| Lead | ND | | 5.0 | 3.0 | ug/L | | 06/15/15 11:35 | 06/16/15 10:58 | 1 |
| Nickel | 1.5 | J B | 10.0 | 1.3 | ug/L | | 06/15/15 11:35 | 06/16/15 10:58 | 1 |
| Selenium | ND | | 15.0 | 8.7 | ug/L | | 06/15/15 11:35 | 06/16/15 10:58 | 1 |
| Silver | ND | | 3.0 | 1.7 | ug/L | | 06/15/15 11:35 | 06/16/15 10:58 | 1 |
| Zinc | 233 | | 10.0 | 1.5 | ug/L | | 06/15/15 11:35 | 06/16/15 10:58 | 1 |

Method: 200.8 - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Antimony | 1.0 | | 1.0 | 0.15 | ug/L | | 06/15/15 10:30 | 06/16/15 19:44 | 1 |

Method: 245.1 - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.12 | ug/L | | 06/15/15 09:50 | 06/15/15 14:52 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Total Petroleum Hydrocarbons (1664A) | ND | | 4.9 | 1.9 | mg/L | | 06/18/15 12:28 | 06/18/15 12:37 | 1 |
| Cyanide, Total | ND | | 0.010 | 0.0050 | mg/L | | 06/16/15 11:10 | 06/17/15 09:31 | 1 |
| Phenolics, Total Recoverable | ND | | 10.0 | 5.0 | ug/L | | 06/15/15 13:16 | 06/16/15 07:47 | 1 |
| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids | 4.4 | | 4.0 | 4.0 | mg/L | | | 06/16/15 09:21 | 1 |

Client Sample ID: MH-Q

Date Collected: 06/12/15 09:45

Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/16/15 04:09 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/16/15 04:09 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/16/15 04:09 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 06/16/15 04:09 | 1 |
| o-Xylene | ND | | 1.0 | 0.76 | ug/L | | | 06/16/15 04:09 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/16/15 04:09 | 1 |
| Total BTEX | ND | | 2.0 | 1.0 | ug/L | | | 06/16/15 04:09 | 1 |
| Naphthalene | ND | | 1.0 | 0.43 | ug/L | | | 06/16/15 04:09 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 108 | | 71 - 126 | | 06/16/15 04:09 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 66 - 137 | | 06/16/15 04:09 | 1 |
| 4-Bromofluorobenzene (Surr) | 105 | | 73 - 120 | | 06/16/15 04:09 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 60 - 140 | | 06/16/15 04:09 | 1 |

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bis(2-ethylhexyl) phthalate | ND | | 4.7 | 0.40 | ug/L | | 06/16/15 08:39 | 06/19/15 03:38 | 1 |
| Butyl benzyl phthalate | ND | | 2.8 | 0.15 | ug/L | | 06/16/15 08:39 | 06/19/15 03:38 | 1 |
| Diethyl phthalate | 0.11 | J | 0.47 | 0.061 | ug/L | | 06/16/15 08:39 | 06/19/15 03:38 | 1 |
| Dimethyl phthalate | ND | | 0.47 | 0.054 | ug/L | | 06/16/15 08:39 | 06/19/15 03:38 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Client Sample ID: MH-Q

Date Collected: 06/12/15 09:45

Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-2

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| Di-n-butyl phthalate | ND | | 1.9 | 0.33 | ug/L | | 06/16/15 08:39 | 06/19/15 03:38 | 1 |
| Di-n-octyl phthalate | ND | | 4.7 | 0.19 | ug/L | | 06/16/15 08:39 | 06/19/15 03:38 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol (Surr) | 103 | | 39 - 146 | | | | 06/16/15 08:39 | 06/19/15 03:38 | 1 |
| 2-Fluorobiphenyl | 70 | | 37 - 120 | | | | 06/16/15 08:39 | 06/19/15 03:38 | 1 |
| 2-Fluorophenol (Surr) | 34 | | 18 - 120 | | | | 06/16/15 08:39 | 06/19/15 03:38 | 1 |
| Nitrobenzene-d5 (Surr) | 60 | | 34 - 132 | | | | 06/16/15 08:39 | 06/19/15 03:38 | 1 |
| Phenol-d5 (Surr) | 22 | | 11 - 120 | | | | 06/16/15 08:39 | 06/19/15 03:38 | 1 |
| p-Terphenyl-d14 | 92 | | 58 - 147 | | | | 06/16/15 08:39 | 06/19/15 03:38 | 1 |

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | ND | | 0.056 | 0.035 | ug/L | | 06/16/15 08:53 | 06/17/15 03:01 | 1 |
| PCB-1221 | ND | | 0.056 | 0.035 | ug/L | | 06/16/15 08:53 | 06/17/15 03:01 | 1 |
| PCB-1232 | ND | | 0.056 | 0.035 | ug/L | | 06/16/15 08:53 | 06/17/15 03:01 | 1 |
| PCB-1242 | ND | | 0.056 | 0.035 | ug/L | | 06/16/15 08:53 | 06/17/15 03:01 | 1 |
| PCB-1248 | ND | | 0.056 | 0.035 | ug/L | | 06/16/15 08:53 | 06/17/15 03:01 | 1 |
| PCB-1254 | ND | | 0.056 | 0.029 | ug/L | | 06/16/15 08:53 | 06/17/15 03:01 | 1 |
| PCB-1260 | ND | | 0.056 | 0.029 | ug/L | | 06/16/15 08:53 | 06/17/15 03:01 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl | 48 | | 26 - 135 | | | | 06/16/15 08:53 | 06/17/15 03:01 | 1 |
| Tetrachloro-m-xylene | 99 | | 27 - 159 | | | | 06/16/15 08:53 | 06/17/15 03:01 | 1 |

Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic | ND | | 10.0 | 5.6 | ug/L | | 06/15/15 11:35 | 06/16/15 11:01 | 1 |
| Cadmium | ND | | 1.0 | 0.50 | ug/L | | 06/15/15 11:35 | 06/16/15 11:01 | 1 |
| Copper | 4.1 | J | 10.0 | 1.6 | ug/L | | 06/15/15 11:35 | 06/16/15 11:01 | 1 |
| Iron | 439 | | 50.0 | 19.3 | ug/L | | 06/15/15 11:35 | 06/16/15 11:01 | 1 |
| Lead | 15.4 | | 5.0 | 3.0 | ug/L | | 06/15/15 11:35 | 06/16/15 11:01 | 1 |
| Nickel | 3.4 | J B | 10.0 | 1.3 | ug/L | | 06/15/15 11:35 | 06/16/15 11:01 | 1 |
| Selenium | ND | | 15.0 | 8.7 | ug/L | | 06/15/15 11:35 | 06/16/15 11:01 | 1 |
| Silver | ND | | 3.0 | 1.7 | ug/L | | 06/15/15 11:35 | 06/16/15 11:01 | 1 |
| Zinc | 1520 | | 10.0 | 1.5 | ug/L | | 06/15/15 11:35 | 06/16/15 11:01 | 1 |

Method: 200.8 - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Antimony | 0.34 | J | 1.0 | 0.15 | ug/L | | 06/15/15 10:30 | 06/16/15 19:50 | 1 |

Method: 245.1 - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.12 | ug/L | | 06/15/15 09:50 | 06/15/15 14:54 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Total Petroleum Hydrocarbons (1664A) | ND | | 4.9 | 1.9 | mg/L | | 06/18/15 12:28 | 06/18/15 12:37 | 1 |
| Cyanide, Total | ND | | 0.010 | 0.0050 | mg/L | | 06/16/15 11:10 | 06/17/15 09:34 | 1 |
| Phenolics, Total Recoverable | ND | | 10.0 | 5.0 | ug/L | | 06/15/15 13:16 | 06/16/15 07:53 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Client Sample ID: MH-Q

Date Collected: 06/12/15 09:45

Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-2

Matrix: Water

General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chromium, hexavalent | ND | | 0.010 | 0.0050 | mg/L | | | 06/13/15 09:15 | 1 |
| Cr (III) | ND | | 0.010 | 0.0060 | mg/L | | | 06/17/15 14:12 | 1 |
| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids | ND | | 4.0 | 4.0 | mg/L | | | 06/16/15 09:21 | 1 |

Client Sample ID: DUP-1

Date Collected: 06/12/15 09:30

Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/16/15 04:32 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/16/15 04:32 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/16/15 04:32 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 06/16/15 04:32 | 1 |
| o-Xylene | ND | | 1.0 | 0.76 | ug/L | | | 06/16/15 04:32 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/16/15 04:32 | 1 |
| Total BTEX | ND | | 2.0 | 1.0 | ug/L | | | 06/16/15 04:32 | 1 |
| Naphthalene | ND | | 1.0 | 0.43 | ug/L | | | 06/16/15 04:32 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 98 | | 71 - 126 | | 06/16/15 04:32 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 66 - 137 | | 06/16/15 04:32 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | 06/16/15 04:32 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 60 - 140 | | 06/16/15 04:32 | 1 |

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bis(2-ethylhexyl) phthalate | ND | | 4.7 | 0.40 | ug/L | | 06/16/15 08:39 | 06/19/15 04:08 | 1 |
| Butyl benzyl phthalate | ND | | 2.8 | 0.15 | ug/L | | 06/16/15 08:39 | 06/19/15 04:08 | 1 |
| Diethyl phthalate | 0.12 | J | 0.47 | 0.061 | ug/L | | 06/16/15 08:39 | 06/19/15 04:08 | 1 |
| Dimethyl phthalate | ND | | 0.47 | 0.054 | ug/L | | 06/16/15 08:39 | 06/19/15 04:08 | 1 |
| Di-n-butyl phthalate | ND | | 1.9 | 0.33 | ug/L | | 06/16/15 08:39 | 06/19/15 04:08 | 1 |
| Di-n-octyl phthalate | ND | | 4.7 | 0.19 | ug/L | | 06/16/15 08:39 | 06/19/15 04:08 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 113 | | 39 - 146 | 06/16/15 08:39 | 06/19/15 04:08 | 1 |
| 2-Fluorobiphenyl | 74 | | 37 - 120 | 06/16/15 08:39 | 06/19/15 04:08 | 1 |
| 2-Fluorophenol (Surr) | 36 | | 18 - 120 | 06/16/15 08:39 | 06/19/15 04:08 | 1 |
| Nitrobenzene-d5 (Surr) | 62 | | 34 - 132 | 06/16/15 08:39 | 06/19/15 04:08 | 1 |
| Phenol-d5 (Surr) | 23 | | 11 - 120 | 06/16/15 08:39 | 06/19/15 04:08 | 1 |
| p-Terphenyl-d14 | 99 | | 58 - 147 | 06/16/15 08:39 | 06/19/15 04:08 | 1 |

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | ND | | 0.057 | 0.036 | ug/L | | 06/16/15 08:53 | 06/17/15 03:17 | 1 |
| PCB-1221 | ND | | 0.057 | 0.036 | ug/L | | 06/16/15 08:53 | 06/17/15 03:17 | 1 |
| PCB-1232 | ND | | 0.057 | 0.036 | ug/L | | 06/16/15 08:53 | 06/17/15 03:17 | 1 |
| PCB-1242 | ND | | 0.057 | 0.036 | ug/L | | 06/16/15 08:53 | 06/17/15 03:17 | 1 |
| PCB-1248 | ND | | 0.057 | 0.036 | ug/L | | 06/16/15 08:53 | 06/17/15 03:17 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Client Sample ID: DUP-1

Date Collected: 06/12/15 09:30

Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-3

Matrix: Water

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| PCB-1254 | ND | | 0.057 | 0.029 | ug/L | | 06/16/15 08:53 | 06/17/15 03:17 | 1 |
| PCB-1260 | ND | | 0.057 | 0.029 | ug/L | | 06/16/15 08:53 | 06/17/15 03:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl | 52 | | 26 - 135 | | | | 06/16/15 08:53 | 06/17/15 03:17 | 1 |
| Tetrachloro-m-xylene | 87 | | 27 - 159 | | | | 06/16/15 08:53 | 06/17/15 03:17 | 1 |

Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic | ND | | 10.0 | 5.6 | ug/L | | 06/15/15 11:35 | 06/16/15 11:04 | 1 |
| Cadmium | ND | | 1.0 | 0.50 | ug/L | | 06/15/15 11:35 | 06/16/15 11:04 | 1 |
| Copper | 4.6 | J | 10.0 | 1.6 | ug/L | | 06/15/15 11:35 | 06/16/15 11:04 | 1 |
| Iron | 451 | | 50.0 | 19.3 | ug/L | | 06/15/15 11:35 | 06/16/15 11:04 | 1 |
| Lead | 15.9 | | 5.0 | 3.0 | ug/L | | 06/15/15 11:35 | 06/16/15 11:04 | 1 |
| Nickel | 3.6 | J B | 10.0 | 1.3 | ug/L | | 06/15/15 11:35 | 06/16/15 11:04 | 1 |
| Selenium | ND | | 15.0 | 8.7 | ug/L | | 06/15/15 11:35 | 06/16/15 11:04 | 1 |
| Silver | ND | | 3.0 | 1.7 | ug/L | | 06/15/15 11:35 | 06/16/15 11:04 | 1 |
| Zinc | 1540 | | 10.0 | 1.5 | ug/L | | 06/15/15 11:35 | 06/16/15 11:04 | 1 |

Method: 200.8 - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Antimony | 0.33 | J | 1.0 | 0.15 | ug/L | | 06/15/15 10:30 | 06/16/15 19:56 | 1 |

Method: 245.1 - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.12 | ug/L | | 06/15/15 09:50 | 06/15/15 14:55 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Total Petroleum Hydrocarbons (1664A) | ND | | 4.9 | 1.9 | mg/L | | 06/18/15 12:28 | 06/18/15 12:37 | 1 |
| Cyanide, Total | ND | | 0.010 | 0.0050 | mg/L | | 06/16/15 11:10 | 06/17/15 09:37 | 1 |
| Phenolics, Total Recoverable | ND | | 10.0 | 5.0 | ug/L | | 06/15/15 13:16 | 06/16/15 07:53 | 1 |
| Chromium, hexavalent | ND | | 0.010 | 0.0050 | mg/L | | | 06/13/15 09:15 | 1 |
| Cr (III) | ND | | 0.010 | 0.0060 | mg/L | | | 06/17/15 14:12 | 1 |
| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids | ND | | 4.0 | 4.0 | mg/L | | | 06/16/15 09:21 | 1 |

Client Sample ID: MH-L

Date Collected: 06/12/15 13:10

Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/16/15 04:55 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/16/15 04:55 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/16/15 04:55 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 06/16/15 04:55 | 1 |
| o-Xylene | ND | | 1.0 | 0.76 | ug/L | | | 06/16/15 04:55 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/16/15 04:55 | 1 |
| Total BTEX | ND | | 2.0 | 1.0 | ug/L | | | 06/16/15 04:55 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Client Sample ID: MH-L

Date Collected: 06/12/15 13:10

Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Naphthalene | ND | | 1.0 | 0.43 | ug/L | | | 06/16/15 04:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 96 | | 71 - 126 | | | | | 06/16/15 04:55 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 66 - 137 | | | | | 06/16/15 04:55 | 1 |
| 4-Bromofluorobenzene (Surr) | 95 | | 73 - 120 | | | | | 06/16/15 04:55 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 60 - 140 | | | | | 06/16/15 04:55 | 1 |

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| Bis(2-ethylhexyl) phthalate | ND | | 4.7 | 0.40 | ug/L | | 06/16/15 08:39 | 06/19/15 03:08 | 1 |
| Butyl benzyl phthalate | ND | | 2.8 | 0.15 | ug/L | | 06/16/15 08:39 | 06/19/15 03:08 | 1 |
| Diethyl phthalate | ND | | 0.47 | 0.060 | ug/L | | 06/16/15 08:39 | 06/19/15 03:08 | 1 |
| Dimethyl phthalate | ND | | 0.47 | 0.054 | ug/L | | 06/16/15 08:39 | 06/19/15 03:08 | 1 |
| Di-n-butyl phthalate | ND | | 1.9 | 0.33 | ug/L | | 06/16/15 08:39 | 06/19/15 03:08 | 1 |
| Di-n-octyl phthalate | ND | | 4.7 | 0.19 | ug/L | | 06/16/15 08:39 | 06/19/15 03:08 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol (Surr) | 85 | | 39 - 146 | | | | 06/16/15 08:39 | 06/19/15 03:08 | 1 |
| 2-Fluorobiphenyl | 49 | | 37 - 120 | | | | 06/16/15 08:39 | 06/19/15 03:08 | 1 |
| 2-Fluorophenol (Surr) | 20 | | 18 - 120 | | | | 06/16/15 08:39 | 06/19/15 03:08 | 1 |
| Nitrobenzene-d5 (Surr) | 40 | | 34 - 132 | | | | 06/16/15 08:39 | 06/19/15 03:08 | 1 |
| Phenol-d5 (Surr) | 15 | | 11 - 120 | | | | 06/16/15 08:39 | 06/19/15 03:08 | 1 |
| p-Terphenyl-d14 | 74 | | 58 - 147 | | | | 06/16/15 08:39 | 06/19/15 03:08 | 1 |

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | ND | | 0.057 | 0.036 | ug/L | | 06/16/15 08:53 | 06/16/15 23:03 | 1 |
| PCB-1221 | ND | | 0.057 | 0.036 | ug/L | | 06/16/15 08:53 | 06/16/15 23:03 | 1 |
| PCB-1232 | ND | | 0.057 | 0.036 | ug/L | | 06/16/15 08:53 | 06/16/15 23:03 | 1 |
| PCB-1242 | ND | | 0.057 | 0.036 | ug/L | | 06/16/15 08:53 | 06/16/15 23:03 | 1 |
| PCB-1248 | ND | | 0.057 | 0.036 | ug/L | | 06/16/15 08:53 | 06/16/15 23:03 | 1 |
| PCB-1254 | ND | | 0.057 | 0.029 | ug/L | | 06/16/15 08:53 | 06/16/15 23:03 | 1 |
| PCB-1260 | ND | | 0.057 | 0.029 | ug/L | | 06/16/15 08:53 | 06/16/15 23:03 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl | 50 | | 26 - 135 | | | | 06/16/15 08:53 | 06/16/15 23:03 | 1 |
| Tetrachloro-m-xylene | 86 | | 27 - 159 | | | | 06/16/15 08:53 | 06/16/15 23:03 | 1 |

Method: 200.7 Rev 4.4 - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic | ND | | 10.0 | 5.6 | ug/L | | 06/15/15 11:35 | 06/16/15 11:07 | 1 |
| Cadmium | ND | | 1.0 | 0.50 | ug/L | | 06/15/15 11:35 | 06/16/15 11:07 | 1 |
| Copper | 14.2 | | 10.0 | 1.6 | ug/L | | 06/15/15 11:35 | 06/16/15 11:07 | 1 |
| Iron | 94.4 | | 50.0 | 19.3 | ug/L | | 06/15/15 11:35 | 06/16/15 11:07 | 1 |
| Lead | 3.9 J | | 5.0 | 3.0 | ug/L | | 06/15/15 11:35 | 06/16/15 11:07 | 1 |
| Nickel | 2.9 J B | | 10.0 | 1.3 | ug/L | | 06/15/15 11:35 | 06/16/15 11:07 | 1 |
| Selenium | ND | | 15.0 | 8.7 | ug/L | | 06/15/15 11:35 | 06/16/15 11:07 | 1 |
| Silver | ND | | 3.0 | 1.7 | ug/L | | 06/15/15 11:35 | 06/16/15 11:07 | 1 |
| Zinc | 27.1 | | 10.0 | 1.5 | ug/L | | 06/15/15 11:35 | 06/16/15 11:07 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Client Sample ID: MH-L
Date Collected: 06/12/15 13:10
Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-4
Matrix: Water

Method: 200.8 - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Antimony | 0.51 | J | 2.0 | 0.30 | ug/L | | 06/15/15 10:30 | 06/16/15 20:02 | 2 |

Method: 245.1 - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.12 | ug/L | | 06/15/15 09:50 | 06/15/15 14:57 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Total Petroleum Hydrocarbons (1664A) | ND | | 4.9 | 1.9 | mg/L | | 06/18/15 12:28 | 06/18/15 12:37 | 1 |
| Cyanide, Total | 0.0053 | J | 0.010 | 0.0050 | mg/L | | 06/16/15 11:10 | 06/17/15 09:38 | 1 |
| Phenolics, Total Recoverable | 17.1 | | 10.0 | 5.0 | ug/L | | 06/15/15 13:16 | 06/16/15 07:53 | 1 |
| Chromium, hexavalent | ND | F1 | 0.010 | 0.0050 | mg/L | | | 06/13/15 09:15 | 1 |
| Cr (III) | ND | | 0.010 | 0.0060 | mg/L | | | 06/17/15 14:12 | 1 |
| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids | ND | | 4.0 | 4.0 | mg/L | | | 06/16/15 09:21 | 1 |

Client Sample ID: TRIP BLANK

Date Collected: 06/11/15 15:00
Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/16/15 05:18 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/16/15 05:18 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/16/15 05:18 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 06/16/15 05:18 | 1 |
| 1,2-Dimethylbenzene | ND | | 1.0 | 0.76 | ug/L | | | 06/16/15 05:18 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/16/15 05:18 | 1 |
| Total BTEX | ND | | 2.0 | 1.0 | ug/L | | | 06/16/15 05:18 | 1 |
| Naphthalene | ND | | 1.0 | 0.43 | ug/L | | | 06/16/15 05:18 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 97 | | 71 - 126 | | 06/16/15 05:18 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 66 - 137 | | 06/16/15 05:18 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | 06/16/15 05:18 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 60 - 140 | | 06/16/15 05:18 | 1 |

Client Sample ID: TRIP BLANK

Date Collected: 06/10/15 05:00
Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/16/15 05:41 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/16/15 05:41 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/16/15 05:41 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 06/16/15 05:41 | 1 |
| 1,2-Dimethylbenzene | ND | | 1.0 | 0.76 | ug/L | | | 06/16/15 05:41 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/16/15 05:41 | 1 |
| Total BTEX | ND | | 2.0 | 1.0 | ug/L | | | 06/16/15 05:41 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-82179-6

Date Collected: 06/10/15 05:00

Matrix: Water

Date Received: 06/13/15 02:55

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Naphthalene | ND | | 1.0 | 0.43 | ug/L | | | 06/16/15 05:41 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 97 | | 71 - 126 | | 06/16/15 05:41 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 66 - 137 | | 06/16/15 05:41 | 1 |
| 4-Bromofluorobenzene (Surr) | 95 | | 73 - 120 | | 06/16/15 05:41 | 1 |
| Dibromofluoromethane (Surr) | 103 | | 60 - 140 | | 06/16/15 05:41 | 1 |

Surrogate Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|------------------|--------------------|--|-------------------|-----------------|------------------|
| | | TOL (71-126) | 12DCE (66-137) | BFB (73-120) | DBFM (60-140) |
| 480-82179-1 | CP-4 | 97 | 104 | 95 | 100 |
| 480-82179-2 | MH-Q | 108 | 104 | 105 | 101 |
| 480-82179-3 | DUP-1 | 98 | 103 | 96 | 101 |
| 480-82179-4 | MH-L | 96 | 107 | 95 | 104 |
| 480-82179-5 | TRIP BLANK | 97 | 105 | 96 | 104 |
| 480-82179-6 | TRIP BLANK | 97 | 106 | 95 | 103 |
| LCS 480-248180/5 | Lab Control Sample | 122 | 111 | 116 | 110 |
| MB 480-248180/7 | Method Blank | 96 | 102 | 95 | 99 |

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|--------------------|--------------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | TBP (39-146) | FBP (37-120) | 2FP (18-120) | NBZ (34-132) | PHL (11-120) | TPH (58-147) |
| 480-82179-1 | CP-4 | 110 | 72 | 34 | 60 | 22 | 95 |
| 480-82179-1 MS | CP-4 | 113 | 85 | 59 | 74 | 46 | 96 |
| 480-82179-1 MSD | CP-4 | 116 | 89 | 65 | 83 | 48 | 96 |
| 480-82179-2 | MH-Q | 103 | 70 | 34 | 60 | 22 | 92 |
| 480-82179-3 | DUP-1 | 113 | 74 | 36 | 62 | 23 | 99 |
| 480-82179-4 | MH-L | 85 | 49 | 20 | 40 | 15 | 74 |
| LCS 480-248229/2-A | Lab Control Sample | 115 | 91 | 53 | 86 | 35 | 102 |
| MB 480-248229/1-A | Method Blank | 102 | 78 | 42 | 68 | 29 | 94 |

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|-----------------|------------------|--|------------------|
| | | DCB1 (26-135) | TCX1 (27-159) |
| 480-82179-1 | CP-4 | 39 | 95 |
| 480-82179-2 | MH-Q | 48 | 99 |
| 480-82179-3 | DUP-1 | 52 | 87 |
| 480-82179-4 | MH-L | 50 | 86 |
| 480-82179-4 MS | MH-L | 74 | 94 |
| 480-82179-4 MSD | MH-L | 70 | 96 |

TestAmerica Buffalo

Surrogate Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | DCB1 (26-135) | TCX1 (27-159) |
|--------------------|--------------------|------------------|------------------|
| LCS 480-248241/2-A | Lab Control Sample | 55 | 87 |
| MB 480-248241/1-A | Method Blank | 63 | 99 |

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-248180/7

Matrix: Water

Analysis Batch: 248180

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/15/15 23:37 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/15/15 23:37 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/15/15 23:37 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | 0.66 | ug/L | | | 06/15/15 23:37 | 1 |
| 1,2-Dimethylbenzene | ND | | 1.0 | 0.76 | ug/L | | | 06/15/15 23:37 | 1 |
| o-Xylene | ND | | 1.0 | 0.76 | ug/L | | | 06/15/15 23:37 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/15/15 23:37 | 1 |
| Total BTEX | ND | | 2.0 | 1.0 | ug/L | | | 06/15/15 23:37 | 1 |
| Naphthalene | ND | | 1.0 | 0.43 | ug/L | | | 06/15/15 23:37 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 96 | | 71 - 126 | | 06/15/15 23:37 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 66 - 137 | | 06/15/15 23:37 | 1 |
| 4-Bromofluorobenzene (Surr) | 95 | | 73 - 120 | | 06/15/15 23:37 | 1 |
| Dibromofluoromethane (Surr) | 99 | | 60 - 140 | | 06/15/15 23:37 | 1 |

Lab Sample ID: LCS 480-248180/5

Matrix: Water

Analysis Batch: 248180

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|------|---|------|--------------|
| Benzene | 25.0 | 27.0 | | ug/L | | 108 | 71 - 124 |
| Toluene | 25.0 | 29.8 | | ug/L | | 119 | 80 - 122 |
| Ethylbenzene | 25.0 | 25.1 | | ug/L | | 101 | 77 - 123 |
| m-Xylene & p-Xylene | 25.0 | 26.6 | | ug/L | | 106 | 76 - 122 |
| 1,2-Dimethylbenzene | 25.0 | 25.5 | | ug/L | | 102 | 76 - 122 |
| o-Xylene | 25.0 | 25.5 | | ug/L | | 102 | 76 - 122 |
| Naphthalene | 25.0 | 25.2 | | ug/L | | 101 | 66 - 125 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| Toluene-d8 (Surr) | 122 | | 71 - 126 |
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 116 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 110 | | 60 - 140 |

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 480-248229/1-A

Matrix: Water

Analysis Batch: 248921

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248229

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Bis(2-ethylhexyl) phthalate | ND | | 5.0 | 0.42 | ug/L | | 06/16/15 08:39 | 06/18/15 23:08 | 1 |
| Butyl benzyl phthalate | ND | | 3.0 | 0.16 | ug/L | | 06/16/15 08:39 | 06/18/15 23:08 | 1 |
| Diethyl phthalate | ND | | 0.50 | 0.064 | ug/L | | 06/16/15 08:39 | 06/18/15 23:08 | 1 |
| Dimethyl phthalate | ND | | 0.50 | 0.057 | ug/L | | 06/16/15 08:39 | 06/18/15 23:08 | 1 |
| Di-n-butyl phthalate | ND | | 2.0 | 0.35 | ug/L | | 06/16/15 08:39 | 06/18/15 23:08 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 480-248229/1-A

Matrix: Water

Analysis Batch: 248921

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248229

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|--------------|----------|------|------|---|----------------|----------------|---------|
| Di-n-octyl phthalate | ND | | 5.0 | 0.20 | ug/L | | 06/16/15 08:39 | 06/18/15 23:08 | 1 |
| Surrogate | %Recovery | MB Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2,4,6-Tribromophenol (Surr) | 102 | | 39 - 146 | | | | 06/16/15 08:39 | 06/18/15 23:08 | 1 |
| 2-Fluorobiphenyl | 78 | | 37 - 120 | | | | 06/16/15 08:39 | 06/18/15 23:08 | 1 |
| 2-Fluorophenol (Surr) | 42 | | 18 - 120 | | | | 06/16/15 08:39 | 06/18/15 23:08 | 1 |
| Nitrobenzene-d5 (Surr) | 68 | | 34 - 132 | | | | 06/16/15 08:39 | 06/18/15 23:08 | 1 |
| Phenol-d5 (Surr) | 29 | | 11 - 120 | | | | 06/16/15 08:39 | 06/18/15 23:08 | 1 |
| p-Terphenyl-d14 | 94 | | 58 - 147 | | | | 06/16/15 08:39 | 06/18/15 23:08 | 1 |

Lab Sample ID: LCS 480-248229/2-A

Matrix: Water

Analysis Batch: 248921

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 248229

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|---------------|---------------|------|---|------|--------------|
| Bis(2-ethylhexyl) phthalate | 4.00 | 3.52 | J | ug/L | | 88 | 69 - 136 |
| Butyl benzyl phthalate | 4.00 | 3.44 | | ug/L | | 86 | 58 - 164 |
| Diethyl phthalate | 4.00 | 3.75 | | ug/L | | 94 | 57 - 145 |
| Dimethyl phthalate | 4.00 | 3.84 | | ug/L | | 96 | 55 - 136 |
| Di-n-butyl phthalate | 4.00 | 3.79 | | ug/L | | 95 | 59 - 172 |
| Di-n-octyl phthalate | 4.00 | 3.42 | J | ug/L | | 86 | 76 - 141 |
| Surrogate | %Recovery | LCS Qualifier | Limits | | | | |
| 2,4,6-Tribromophenol (Surr) | 115 | | 39 - 146 | | | | |
| 2-Fluorobiphenyl | 91 | | 37 - 120 | | | | |
| 2-Fluorophenol (Surr) | 53 | | 18 - 120 | | | | |
| Nitrobenzene-d5 (Surr) | 86 | | 34 - 132 | | | | |
| Phenol-d5 (Surr) | 35 | | 11 - 120 | | | | |
| p-Terphenyl-d14 | 102 | | 58 - 147 | | | | |

Lab Sample ID: 480-82179-1 MS

Matrix: Water

Analysis Batch: 248921

Client Sample ID: CP-4

Prep Type: Total/NA

Prep Batch: 248229

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Bis(2-ethylhexyl) phthalate | ND | F1 | 7.41 | 4.74 | J F1 | ug/L | | 64 | 69 - 136 |
| Butyl benzyl phthalate | ND | | 7.41 | 6.31 | | ug/L | | 85 | 71 - 130 |
| Diethyl phthalate | 0.11 | J | 7.41 | 6.62 | | ug/L | | 88 | 67 - 127 |
| Dimethyl phthalate | ND | | 7.41 | 6.79 | | ug/L | | 92 | 64 - 130 |
| Di-n-butyl phthalate | ND | | 7.41 | 6.78 | | ug/L | | 91 | 72 - 130 |
| Di-n-octyl phthalate | ND | F1 | 7.41 | 4.44 | J F1 | ug/L | | 60 | 76 - 141 |
| Surrogate | %Recovery | MS Qualifier | Limits | | | | | | |
| 2,4,6-Tribromophenol (Surr) | 113 | | 39 - 146 | | | | | | |
| 2-Fluorobiphenyl | 85 | | 37 - 120 | | | | | | |
| 2-Fluorophenol (Surr) | 59 | | 18 - 120 | | | | | | |
| Nitrobenzene-d5 (Surr) | 74 | | 34 - 132 | | | | | | |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 480-82179-1 MS

Matrix: Water

Analysis Batch: 248921

Client Sample ID: CP-4

Prep Type: Total/NA

Prep Batch: 248229

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|------------------|-----------------|-----------------|----------|
| Phenol-d5 (Surr) | 46 | | 11 - 120 |
| p-Terphenyl-d14 | 96 | | 58 - 147 |

Lab Sample ID: 480-82179-1 MSD

Matrix: Water

Analysis Batch: 248921

Client Sample ID: CP-4

Prep Type: Total/NA

Prep Batch: 248229

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|------------------|---------------------|----------------|---------------|------------------|------|---|------|-----------------|-----|--------------|
| Bis(2-ethylhexyl) phthalate | ND | F1 | 7.41 | 4.42 | J F1 | ug/L | | 60 | 69 - 136 | 7 | 15 |
| Butyl benzyl phthalate | ND | | 7.41 | 6.17 | | ug/L | | 83 | 71 - 130 | 2 | 16 |
| Diethyl phthalate | 0.11 | J | 7.41 | 6.64 | | ug/L | | 88 | 67 - 127 | 0 | 15 |
| Dimethyl phthalate | ND | | 7.41 | 6.75 | | ug/L | | 91 | 64 - 130 | 0 | 15 |
| Di-n-butyl phthalate | ND | | 7.41 | 6.89 | | ug/L | | 93 | 72 - 130 | 2 | 15 |
| Di-n-octyl phthalate | ND | F1 | 7.41 | 4.27 | J F1 | ug/L | | 58 | 76 - 141 | 4 | 16 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|-----------------------------|------------------|------------------|----------|
| 2,4,6-Tribromophenol (Surr) | 116 | | 39 - 146 |
| 2-Fluorobiphenyl | 89 | | 37 - 120 |
| 2-Fluorophenol (Surr) | 65 | | 18 - 120 |
| Nitrobenzene-d5 (Surr) | 83 | | 34 - 132 |
| Phenol-d5 (Surr) | 48 | | 11 - 120 |
| p-Terphenyl-d14 | 96 | | 58 - 147 |

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 480-248241/1-A

Matrix: Water

Analysis Batch: 248383

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248241

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|-------|-------|------|---|----------------|----------------|---------|
| PCB-1016 | ND | | 0.060 | 0.038 | ug/L | | 06/16/15 08:53 | 06/16/15 22:00 | 1 |
| PCB-1221 | ND | | 0.060 | 0.038 | ug/L | | 06/16/15 08:53 | 06/16/15 22:00 | 1 |
| PCB-1232 | ND | | 0.060 | 0.038 | ug/L | | 06/16/15 08:53 | 06/16/15 22:00 | 1 |
| PCB-1242 | ND | | 0.060 | 0.038 | ug/L | | 06/16/15 08:53 | 06/16/15 22:00 | 1 |
| PCB-1248 | ND | | 0.060 | 0.038 | ug/L | | 06/16/15 08:53 | 06/16/15 22:00 | 1 |
| PCB-1254 | ND | | 0.060 | 0.031 | ug/L | | 06/16/15 08:53 | 06/16/15 22:00 | 1 |
| PCB-1260 | ND | | 0.060 | 0.031 | ug/L | | 06/16/15 08:53 | 06/16/15 22:00 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl | 63 | | 26 - 135 | 06/16/15 08:53 | 06/16/15 22:00 | 1 |
| Tetrachloro-m-xylene | 99 | | 27 - 159 | 06/16/15 08:53 | 06/16/15 22:00 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 480-248241/2-A

Matrix: Water

Analysis Batch: 248383

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 248241

| Analyte | | | Spike | LCS | LCS | Unit | D | %Rec. | | |
|------------------------|-----------|-----------|----------|--------|-----------|------|---|--------|----------|--|
| | | | Added | Result | Qualifier | | | Limits | | |
| PCB-1016 | | | 1.00 | 0.982 | | ug/L | | 98 | 40 - 142 | |
| PCB-1260 | | | 1.00 | 0.868 | | ug/L | | 87 | 67 - 148 | |
| Surrogate | LCS | LCS | Limits | | | | | | | |
| | %Recovery | Qualifier | | | | | | | | |
| DCB Decachlorobiphenyl | 55 | | 26 - 135 | | | | | | | |
| Tetrachloro-m-xylene | 87 | | 27 - 159 | | | | | | | |

Lab Sample ID: 480-82179-4 MS

Matrix: Water

Analysis Batch: 248383

Client Sample ID: MH-L

Prep Type: Total/NA

Prep Batch: 248241

| | Sample | Sample | Spike | MS | MS | | | %Rec. | | |
|------------------------|-----------------|-----------------|----------|--------|-----------|------|---|-------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| PCB-1016 | ND | | 1.87 | 1.87 | | ug/L | | 100 | 36 - 160 | |
| PCB-1260 | ND | | 1.87 | 1.53 | | ug/L | | 82 | 21 - 163 | |
| | | | | | | | | | | |
| Surrogate | MS %Recovery | MS Qualifier | Limits | | | | | | | |
| DCB Decachlorobiphenyl | 74 | | 26 - 135 | | | | | | | |
| Tetrachloro-m-xylene | 94 | | 27 - 159 | | | | | | | |

Lab Sample ID: 480-82179-4 MSD

Matrix: Water

Analysis Batch: 248383

Client Sample ID: MH-L

Prep Type: Total/NA

Prep Batch: 248241

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
|------------------------|------------------|------------------|----------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| PCB-1016 | ND | | 1.87 | 1.98 | | ug/L | | 106 | 36 - 160 | 6 | 30 |
| PCB-1260 | ND | | 1.87 | 1.53 | | ug/L | | 82 | 21 - 163 | 0 | 30 |
| | | | | | | | | | | | |
| Surrogate | MSD %Recovery | MSD Qualifier | Limits | | | | | | | | |
| DCB Decachlorobiphenyl | 70 | | 26 - 135 | | | | | | | | |
| Tetrachloro-m-xylene | 96 | | 27 - 159 | | | | | | | | |

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-248000/1-A

Matrix: Water

Analysis Batch: 248348

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248000

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Arsenic | ND | | 10.0 | 5.6 | ug/L | | 06/15/15 11:35 | 06/16/15 10:53 | 1 |
| Cadmium | ND | | 1.0 | 0.50 | ug/L | | 06/15/15 11:35 | 06/16/15 10:53 | 1 |
| Copper | ND | | 10.0 | 1.6 | ug/L | | 06/15/15 11:35 | 06/16/15 10:53 | 1 |
| Iron | ND | | 50.0 | 19.3 | ug/L | | 06/15/15 11:35 | 06/16/15 10:53 | 1 |
| Lead | ND | | 5.0 | 3.0 | ug/L | | 06/15/15 11:35 | 06/16/15 10:53 | 1 |
| Nickel | 1.69 | J | 10.0 | 1.3 | ug/L | | 06/15/15 11:35 | 06/16/15 10:53 | 1 |
| Selenium | ND | | 15.0 | 8.7 | ug/L | | 06/15/15 11:35 | 06/16/15 10:53 | 1 |
| Silver | ND | | 3.0 | 1.7 | ug/L | | 06/15/15 11:35 | 06/16/15 10:53 | 1 |
| Zinc | ND | | 10.0 | 1.5 | ug/L | | 06/15/15 11:35 | 06/16/15 10:53 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Lab Sample ID: LCS 480-248000/2-A

Matrix: Water

Analysis Batch: 248348

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 248000

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Arsenic | 200 | 188.2 | | ug/L | | 94 | 85 - 115 |
| Cadmium | 200 | 190.0 | | ug/L | | 95 | 85 - 115 |
| Copper | 200 | 188.6 | | ug/L | | 94 | 85 - 115 |
| Iron | 10000 | 9459 | | ug/L | | 95 | 85 - 115 |
| Lead | 200 | 186.1 | | ug/L | | 93 | 85 - 115 |
| Nickel | 200 | 185.9 | | ug/L | | 93 | 85 - 115 |
| Selenium | 200 | 195.6 | | ug/L | | 98 | 85 - 115 |
| Silver | 50.0 | 49.29 | | ug/L | | 99 | 85 - 115 |
| Zinc | 200 | 192.7 | | ug/L | | 96 | 85 - 115 |

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 480-247999/1-A

Matrix: Water

Analysis Batch: 248575

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 247999

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Antimony | ND | | 1.0 | 0.15 | ug/L | | 06/15/15 10:30 | 06/16/15 18:55 | 1 |

Lab Sample ID: LCS 480-247999/2-A

Matrix: Water

Analysis Batch: 248575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 247999

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Antimony | 20.0 | 21.40 | | ug/L | | 107 | 85 - 115 |

Lab Sample ID: 480-82179-4 MS

Matrix: Water

Analysis Batch: 248575

Client Sample ID: MH-L

Prep Type: Total/NA

Prep Batch: 247999

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Antimony | 0.51 | J | 20.0 | 23.78 | | ug/L | | 116 | 70 - 130 |

Lab Sample ID: 480-82179-4 MSD

Matrix: Water

Analysis Batch: 248575

Client Sample ID: MH-L

Prep Type: Total/NA

Prep Batch: 247999

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Antimony | 0.51 | J | 20.0 | 22.99 | | ug/L | | 112 | 70 - 130 | 3 | 20 |

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-248021/1-A

Matrix: Water

Analysis Batch: 248126

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248021

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Mercury | ND | | 0.20 | 0.12 | ug/L | | 06/15/15 09:50 | 06/15/15 14:32 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 480-248021/2-A
Matrix: Water
Analysis Batch: 248126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 248021

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Mercury | 6.67 | 6.90 | | ug/L | | 103 | 85 - 115 |

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 480-248836/1-A
Matrix: Water
Analysis Batch: 248837

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 248836

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Total Petroleum Hydrocarbons (1664A) | ND | | 5.0 | 1.9 | mg/L | | 06/18/15 12:28 | 06/18/15 12:37 | 1 |

Lab Sample ID: LCS 480-248836/2-A
Matrix: Water
Analysis Batch: 248837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 248836

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Petroleum Hydrocarbons (1664A) | 20.0 | 13.90 | | mg/L | | 69 | 64 - 132 |

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-248306/1-A
Matrix: Water
Analysis Batch: 248571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 248306

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|--------------|-------|--------|------|---|----------------|----------------|---------|
| Cyanide, Total | ND | | 0.010 | 0.0050 | mg/L | | 06/16/15 11:10 | 06/17/15 09:28 | 1 |

Lab Sample ID: LCS 480-248306/2-A
Matrix: Water
Analysis Batch: 248571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 248306

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|------|---|------|--------------|
| Cyanide, Total | 0.250 | 0.258 | | mg/L | | 103 | 90 - 110 |

Lab Sample ID: 480-82179-1 MS
Matrix: Water
Analysis Batch: 248571

Client Sample ID: CP-4
Prep Type: Total/NA
Prep Batch: 248306

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Cyanide, Total | ND | | 0.100 | 0.108 | | mg/L | | 108 | 90 - 110 |

Lab Sample ID: 480-82179-2 DU
Matrix: Water
Analysis Batch: 248571

Client Sample ID: MH-Q
Prep Type: Total/NA
Prep Batch: 248306

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Cyanide, Total | ND | | ND | | mg/L | | NC | 15 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-248085/1-A

Matrix: Water

Analysis Batch: 248256

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248085

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|--------------|------|-----|------|---|----------------|----------------|---------|
| Phenolics, Total Recoverable | ND | | 10.0 | 5.0 | ug/L | | 06/15/15 13:16 | 06/16/15 06:41 | 1 |

Lab Sample ID: LCS 480-248085/2-A

Matrix: Water

Analysis Batch: 248256

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 248085

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Phenolics, Total Recoverable | 100 | 101.7 | | ug/L | | 102 | 90 - 110 |

Lab Sample ID: 480-82179-1 MS

Matrix: Water

Analysis Batch: 248256

Client Sample ID: CP-4

Prep Type: Total/NA

Prep Batch: 248085

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Phenolics, Total Recoverable | ND | | 100 | 98.66 | | ug/L | | 99 | 90 - 110 |

Lab Sample ID: 480-82179-2 DU

Matrix: Water

Analysis Batch: 248256

Client Sample ID: MH-Q

Prep Type: Total/NA

Prep Batch: 248085

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Phenolics, Total Recoverable | ND | | ND | | ug/L | | NC | 20 |

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-248261/1

Matrix: Water

Analysis Batch: 248261

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Total Suspended Solids | ND | | 4.0 | 4.0 | mg/L | | | 06/16/15 09:21 | 1 |

Lab Sample ID: LCS 480-248261/2

Matrix: Water

Analysis Batch: 248261

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Suspended Solids | 249 | 252.0 | | mg/L | | 101 | 88 - 110 |

Lab Sample ID: 480-82179-4 DU

Matrix: Water

Analysis Batch: 248261

Client Sample ID: MH-L

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Suspended Solids | ND | | ND | | mg/L | | NC | 15 |

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Method: SM 3500 CR D - Chromium, Hexavalent

Lab Sample ID: MB 480-247936/3

Matrix: Water

Analysis Batch: 247936

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------------|-----------------|-------|--------|------|---|----------|----------------|---------|
| Chromium, hexavalent | ND | | 0.010 | 0.0050 | mg/L | | | 06/13/15 09:15 | 1 |

Lab Sample ID: LCS 480-247936/4

Matrix: Water

Analysis Batch: 247936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Chromium, hexavalent | 0.0500 | 0.0526 | | mg/L | | 105 | 85 - 115 |

Lab Sample ID: 480-82179-4 MS

Matrix: Water

Analysis Batch: 247936

Client Sample ID: MH-L

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|-----------------|
| Chromium, hexavalent | ND | F1 | 0.0500 | 0.0581 | F1 | mg/L | | 116 | 85 - 115 |

Lab Sample ID: 480-82179-2 DU

Matrix: Water

Analysis Batch: 247936

Client Sample ID: MH-Q

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------------------|------------------|---------------------|--------------|-----------------|------|---|-----|--------------|
| Chromium, hexavalent | ND | | ND | | mg/L | | NC | 15 |

QC Association Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

GC/MS VOA

Analysis Batch: 248180

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | 8260C | |
| 480-82179-2 | MH-Q | Total/NA | Water | 8260C | |
| 480-82179-3 | DUP-1 | Total/NA | Water | 8260C | |
| 480-82179-4 | MH-L | Total/NA | Water | 8260C | |
| 480-82179-5 | TRIP BLANK | Total/NA | Water | 8260C | |
| 480-82179-6 | TRIP BLANK | Total/NA | Water | 8260C | |
| LCS 480-248180/5 | Lab Control Sample | Total/NA | Water | 8260C | |
| MB 480-248180/7 | Method Blank | Total/NA | Water | 8260C | |

GC/MS Semi VOA

Prep Batch: 248229

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | 3510C | |
| 480-82179-1 MS | CP-4 | Total/NA | Water | 3510C | |
| 480-82179-1 MSD | CP-4 | Total/NA | Water | 3510C | |
| 480-82179-2 | MH-Q | Total/NA | Water | 3510C | |
| 480-82179-3 | DUP-1 | Total/NA | Water | 3510C | |
| 480-82179-4 | MH-L | Total/NA | Water | 3510C | |
| LCS 480-248229/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| MB 480-248229/1-A | Method Blank | Total/NA | Water | 3510C | |

Analysis Batch: 248921

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|----------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | 8270D LL | 248229 |
| 480-82179-1 MS | CP-4 | Total/NA | Water | 8270D LL | 248229 |
| 480-82179-1 MSD | CP-4 | Total/NA | Water | 8270D LL | 248229 |
| 480-82179-2 | MH-Q | Total/NA | Water | 8270D LL | 248229 |
| 480-82179-3 | DUP-1 | Total/NA | Water | 8270D LL | 248229 |
| 480-82179-4 | MH-L | Total/NA | Water | 8270D LL | 248229 |
| LCS 480-248229/2-A | Lab Control Sample | Total/NA | Water | 8270D LL | 248229 |
| MB 480-248229/1-A | Method Blank | Total/NA | Water | 8270D LL | 248229 |

GC Semi VOA

Prep Batch: 248241

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | 3510C | |
| 480-82179-2 | MH-Q | Total/NA | Water | 3510C | |
| 480-82179-3 | DUP-1 | Total/NA | Water | 3510C | |
| 480-82179-4 | MH-L | Total/NA | Water | 3510C | |
| 480-82179-4 MS | MH-L | Total/NA | Water | 3510C | |
| 480-82179-4 MSD | MH-L | Total/NA | Water | 3510C | |
| LCS 480-248241/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| MB 480-248241/1-A | Method Blank | Total/NA | Water | 3510C | |

Analysis Batch: 248383

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | 608 | 248241 |
| 480-82179-2 | MH-Q | Total/NA | Water | 608 | 248241 |

TestAmerica Buffalo

QC Association Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

GC Semi VOA (Continued)

Analysis Batch: 248383 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82179-3 | DUP-1 | Total/NA | Water | 608 | 248241 |
| 480-82179-4 | MH-L | Total/NA | Water | 608 | 248241 |
| 480-82179-4 MS | MH-L | Total/NA | Water | 608 | 248241 |
| 480-82179-4 MSD | MH-L | Total/NA | Water | 608 | 248241 |
| LCS 480-248241/2-A | Lab Control Sample | Total/NA | Water | 608 | 248241 |
| MB 480-248241/1-A | Method Blank | Total/NA | Water | 608 | 248241 |

Metals

Prep Batch: 247999

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | 200.8 | |
| 480-82179-2 | MH-Q | Total/NA | Water | 200.8 | |
| 480-82179-3 | DUP-1 | Total/NA | Water | 200.8 | |
| 480-82179-4 | MH-L | Total/NA | Water | 200.8 | |
| 480-82179-4 MS | MH-L | Total/NA | Water | 200.8 | |
| 480-82179-4 MSD | MH-L | Total/NA | Water | 200.8 | |
| LCS 480-247999/2-A | Lab Control Sample | Total/NA | Water | 200.8 | |
| MB 480-247999/1-A | Method Blank | Total/NA | Water | 200.8 | |

Prep Batch: 248000

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | 200.7 | |
| 480-82179-2 | MH-Q | Total/NA | Water | 200.7 | |
| 480-82179-3 | DUP-1 | Total/NA | Water | 200.7 | |
| 480-82179-4 | MH-L | Total/NA | Water | 200.7 | |
| LCS 480-248000/2-A | Lab Control Sample | Total/NA | Water | 200.7 | |
| MB 480-248000/1-A | Method Blank | Total/NA | Water | 200.7 | |

Prep Batch: 248021

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | 245.1 | |
| 480-82179-2 | MH-Q | Total/NA | Water | 245.1 | |
| 480-82179-3 | DUP-1 | Total/NA | Water | 245.1 | |
| 480-82179-4 | MH-L | Total/NA | Water | 245.1 | |
| LCS 480-248021/2-A | Lab Control Sample | Total/NA | Water | 245.1 | |
| MB 480-248021/1-A | Method Blank | Total/NA | Water | 245.1 | |

Analysis Batch: 248126

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | 245.1 | 248021 |
| 480-82179-2 | MH-Q | Total/NA | Water | 245.1 | 248021 |
| 480-82179-3 | DUP-1 | Total/NA | Water | 245.1 | 248021 |
| 480-82179-4 | MH-L | Total/NA | Water | 245.1 | 248021 |
| LCS 480-248021/2-A | Lab Control Sample | Total/NA | Water | 245.1 | 248021 |
| MB 480-248021/1-A | Method Blank | Total/NA | Water | 245.1 | 248021 |

Analysis Batch: 248348

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | 200.7 Rev 4.4 | 248000 |

TestAmerica Buffalo

QC Association Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Metals (Continued)

Analysis Batch: 248348 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|---------------|------------|
| 480-82179-2 | MH-Q | Total/NA | Water | 200.7 Rev 4.4 | 248000 |
| 480-82179-3 | DUP-1 | Total/NA | Water | 200.7 Rev 4.4 | 248000 |
| 480-82179-4 | MH-L | Total/NA | Water | 200.7 Rev 4.4 | 248000 |
| LCS 480-248000/2-A | Lab Control Sample | Total/NA | Water | 200.7 Rev 4.4 | 248000 |
| MB 480-248000/1-A | Method Blank | Total/NA | Water | 200.7 Rev 4.4 | 248000 |

Analysis Batch: 248575

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | 200.8 | 247999 |
| 480-82179-2 | MH-Q | Total/NA | Water | 200.8 | 247999 |
| 480-82179-3 | DUP-1 | Total/NA | Water | 200.8 | 247999 |
| 480-82179-4 | MH-L | Total/NA | Water | 200.8 | 247999 |
| 480-82179-4 MS | MH-L | Total/NA | Water | 200.8 | 247999 |
| 480-82179-4 MSD | MH-L | Total/NA | Water | 200.8 | 247999 |
| LCS 480-247999/2-A | Lab Control Sample | Total/NA | Water | 200.8 | 247999 |
| MB 480-247999/1-A | Method Blank | Total/NA | Water | 200.8 | 247999 |

General Chemistry

Analysis Batch: 247936

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------------|------------|
| 480-82179-2 | MH-Q | Total/NA | Water | SM 3500 CR D | |
| 480-82179-2 DU | MH-Q | Total/NA | Water | SM 3500 CR D | |
| 480-82179-3 | DUP-1 | Total/NA | Water | SM 3500 CR D | |
| 480-82179-4 | MH-L | Total/NA | Water | SM 3500 CR D | |
| 480-82179-4 MS | MH-L | Total/NA | Water | SM 3500 CR D | |
| LCS 480-247936/4 | Lab Control Sample | Total/NA | Water | SM 3500 CR D | |
| MB 480-247936/3 | Method Blank | Total/NA | Water | SM 3500 CR D | |

Prep Batch: 248085

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|----------------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | Distill/Phenol | |
| 480-82179-1 MS | CP-4 | Total/NA | Water | Distill/Phenol | |
| 480-82179-2 | MH-Q | Total/NA | Water | Distill/Phenol | |
| 480-82179-2 DU | MH-Q | Total/NA | Water | Distill/Phenol | |
| 480-82179-3 | DUP-1 | Total/NA | Water | Distill/Phenol | |
| 480-82179-4 | MH-L | Total/NA | Water | Distill/Phenol | |
| LCS 480-248085/2-A | Lab Control Sample | Total/NA | Water | Distill/Phenol | |
| MB 480-248085/1-A | Method Blank | Total/NA | Water | Distill/Phenol | |

Analysis Batch: 248256

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | 420.4 | 248085 |
| 480-82179-1 MS | CP-4 | Total/NA | Water | 420.4 | 248085 |
| 480-82179-2 | MH-Q | Total/NA | Water | 420.4 | 248085 |
| 480-82179-2 DU | MH-Q | Total/NA | Water | 420.4 | 248085 |
| 480-82179-3 | DUP-1 | Total/NA | Water | 420.4 | 248085 |
| 480-82179-4 | MH-L | Total/NA | Water | 420.4 | 248085 |
| LCS 480-248085/2-A | Lab Control Sample | Total/NA | Water | 420.4 | 248085 |
| MB 480-248085/1-A | Method Blank | Total/NA | Water | 420.4 | 248085 |

TestAmerica Buffalo

QC Association Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

General Chemistry (Continued)

Analysis Batch: 248261

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | SM 2540D | |
| 480-82179-2 | MH-Q | Total/NA | Water | SM 2540D | |
| 480-82179-3 | DUP-1 | Total/NA | Water | SM 2540D | |
| 480-82179-4 | MH-L | Total/NA | Water | SM 2540D | |
| 480-82179-4 DU | MH-L | Total/NA | Water | SM 2540D | |
| LCS 480-248261/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| MB 480-248261/1 | Method Blank | Total/NA | Water | SM 2540D | |

Prep Batch: 248306

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | Distill/CN | |
| 480-82179-1 MS | CP-4 | Total/NA | Water | Distill/CN | |
| 480-82179-2 | MH-Q | Total/NA | Water | Distill/CN | |
| 480-82179-2 DU | MH-Q | Total/NA | Water | Distill/CN | |
| 480-82179-3 | DUP-1 | Total/NA | Water | Distill/CN | |
| 480-82179-4 | MH-L | Total/NA | Water | Distill/CN | |
| LCS 480-248306/2-A | Lab Control Sample | Total/NA | Water | Distill/CN | |
| MB 480-248306/1-A | Method Blank | Total/NA | Water | Distill/CN | |

Analysis Batch: 248571

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | 335.4 | 248306 |
| 480-82179-1 MS | CP-4 | Total/NA | Water | 335.4 | 248306 |
| 480-82179-2 | MH-Q | Total/NA | Water | 335.4 | 248306 |
| 480-82179-2 DU | MH-Q | Total/NA | Water | 335.4 | 248306 |
| 480-82179-3 | DUP-1 | Total/NA | Water | 335.4 | 248306 |
| 480-82179-4 | MH-L | Total/NA | Water | 335.4 | 248306 |
| LCS 480-248306/2-A | Lab Control Sample | Total/NA | Water | 335.4 | 248306 |
| MB 480-248306/1-A | Method Blank | Total/NA | Water | 335.4 | 248306 |

Analysis Batch: 248605

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------------|------------|
| 480-82179-2 | MH-Q | Total/NA | Water | SM 3500 CR D | |
| 480-82179-3 | DUP-1 | Total/NA | Water | SM 3500 CR D | |
| 480-82179-4 | MH-L | Total/NA | Water | SM 3500 CR D | |

Prep Batch: 248836

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | 1664A | |
| 480-82179-2 | MH-Q | Total/NA | Water | 1664A | |
| 480-82179-3 | DUP-1 | Total/NA | Water | 1664A | |
| 480-82179-4 | MH-L | Total/NA | Water | 1664A | |
| LCS 480-248836/2-A | Lab Control Sample | Total/NA | Water | 1664A | |
| MB 480-248836/1-A | Method Blank | Total/NA | Water | 1664A | |

Analysis Batch: 248837

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 480-82179-1 | CP-4 | Total/NA | Water | 1664A | 248836 |
| 480-82179-2 | MH-Q | Total/NA | Water | 1664A | 248836 |
| 480-82179-3 | DUP-1 | Total/NA | Water | 1664A | 248836 |
| 480-82179-4 | MH-L | Total/NA | Water | 1664A | 248836 |

TestAmerica Buffalo

QC Association Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

General Chemistry (Continued)

Analysis Batch: 248837 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| LCS 480-248836/2-A | Lab Control Sample | Total/NA | Water | 1664A | 248836 |
| MB 480-248836/1-A | Method Blank | Total/NA | Water | 1664A | 248836 |

Lab Chronicle

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Client Sample ID: CP-4

Date Collected: 06/11/15 09:20

Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 248180 | 06/16/15 03:47 | LJF | TAL BUF |
| Total/NA | Prep | 3510C | | | 248229 | 06/16/15 08:39 | MCZ | TAL BUF |
| Total/NA | Analysis | 8270D LL | | 1 | 248921 | 06/19/15 01:08 | LMW | TAL BUF |
| Total/NA | Prep | 3510C | | | 248241 | 06/16/15 08:53 | MCZ | TAL BUF |
| Total/NA | Analysis | 608 | | 1 | 248383 | 06/17/15 02:45 | KS | TAL BUF |
| Total/NA | Prep | 200.7 | | | 248000 | 06/15/15 11:35 | TAS | TAL BUF |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 248348 | 06/16/15 10:58 | LMH | TAL BUF |
| Total/NA | Prep | 200.8 | | | 247999 | 06/15/15 10:30 | TAS | TAL BUF |
| Total/NA | Analysis | 200.8 | | 1 | 248575 | 06/16/15 19:44 | MTM2 | TAL BUF |
| Total/NA | Prep | 245.1 | | | 248021 | 06/15/15 09:50 | LRK | TAL BUF |
| Total/NA | Analysis | 245.1 | | 1 | 248126 | 06/15/15 14:52 | LRK | TAL BUF |
| Total/NA | Prep | 1664A | | | 248836 | 06/18/15 12:28 | MDL | TAL BUF |
| Total/NA | Analysis | 1664A | | 1 | 248837 | 06/18/15 12:37 | MDL | TAL BUF |
| Total/NA | Prep | Distill/CN | | | 248306 | 06/16/15 11:10 | NDB | TAL BUF |
| Total/NA | Analysis | 335.4 | | 1 | 248571 | 06/17/15 09:31 | NCH | TAL BUF |
| Total/NA | Prep | Distill/Phenol | | | 248085 | 06/15/15 13:16 | GMG | TAL BUF |
| Total/NA | Analysis | 420.4 | | 1 | 248256 | 06/16/15 07:47 | EKB | TAL BUF |
| Total/NA | Analysis | SM 2540D | | 1 | 248261 | 06/16/15 09:21 | EKB | TAL BUF |

Client Sample ID: MH-Q

Date Collected: 06/12/15 09:45

Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 248180 | 06/16/15 04:09 | LJF | TAL BUF |
| Total/NA | Prep | 3510C | | | 248229 | 06/16/15 08:39 | MCZ | TAL BUF |
| Total/NA | Analysis | 8270D LL | | 1 | 248921 | 06/19/15 03:38 | LMW | TAL BUF |
| Total/NA | Prep | 3510C | | | 248241 | 06/16/15 08:53 | MCZ | TAL BUF |
| Total/NA | Analysis | 608 | | 1 | 248383 | 06/17/15 03:01 | KS | TAL BUF |
| Total/NA | Prep | 200.7 | | | 248000 | 06/15/15 11:35 | TAS | TAL BUF |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 248348 | 06/16/15 11:01 | LMH | TAL BUF |
| Total/NA | Prep | 200.8 | | | 247999 | 06/15/15 10:30 | TAS | TAL BUF |
| Total/NA | Analysis | 200.8 | | 1 | 248575 | 06/16/15 19:50 | MTM2 | TAL BUF |
| Total/NA | Prep | 245.1 | | | 248021 | 06/15/15 09:50 | LRK | TAL BUF |
| Total/NA | Analysis | 245.1 | | 1 | 248126 | 06/15/15 14:54 | LRK | TAL BUF |
| Total/NA | Prep | 1664A | | | 248836 | 06/18/15 12:28 | MDL | TAL BUF |
| Total/NA | Analysis | 1664A | | 1 | 248837 | 06/18/15 12:37 | MDL | TAL BUF |
| Total/NA | Prep | Distill/CN | | | 248306 | 06/16/15 11:10 | NDB | TAL BUF |
| Total/NA | Analysis | 335.4 | | 1 | 248571 | 06/17/15 09:34 | NCH | TAL BUF |
| Total/NA | Prep | Distill/Phenol | | | 248085 | 06/15/15 13:16 | GMG | TAL BUF |
| Total/NA | Analysis | 420.4 | | 1 | 248256 | 06/16/15 07:53 | EKB | TAL BUF |
| Total/NA | Analysis | SM 2540D | | 1 | 248261 | 06/16/15 09:21 | EKB | TAL BUF |
| Total/NA | Analysis | SM 3500 CR D | | 1 | 247936 | 06/13/15 09:15 | EGS | TAL BUF |

TestAmerica Buffalo

Lab Chronicle

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Client Sample ID: MH-Q

Date Collected: 06/12/15 09:45

Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | SM 3500 CR D | | 1 | 248605 | 06/17/15 14:12 | LMH | TAL BUF |

Client Sample ID: DUP-1

Date Collected: 06/12/15 09:30

Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 248180 | 06/16/15 04:32 | LJF | TAL BUF |
| Total/NA | Prep | 3510C | | | 248229 | 06/16/15 08:39 | MCZ | TAL BUF |
| Total/NA | Analysis | 8270D LL | | 1 | 248921 | 06/19/15 04:08 | LMW | TAL BUF |
| Total/NA | Prep | 3510C | | | 248241 | 06/16/15 08:53 | MCZ | TAL BUF |
| Total/NA | Analysis | 608 | | 1 | 248383 | 06/17/15 03:17 | KS | TAL BUF |
| Total/NA | Prep | 200.7 | | | 248000 | 06/15/15 11:35 | TAS | TAL BUF |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 248348 | 06/16/15 11:04 | LMH | TAL BUF |
| Total/NA | Prep | 200.8 | | | 247999 | 06/15/15 10:30 | TAS | TAL BUF |
| Total/NA | Analysis | 200.8 | | 1 | 248575 | 06/16/15 19:56 | MTM2 | TAL BUF |
| Total/NA | Prep | 245.1 | | | 248021 | 06/15/15 09:50 | LRK | TAL BUF |
| Total/NA | Analysis | 245.1 | | 1 | 248126 | 06/15/15 14:55 | LRK | TAL BUF |
| Total/NA | Prep | 1664A | | | 248836 | 06/18/15 12:28 | MDL | TAL BUF |
| Total/NA | Analysis | 1664A | | 1 | 248837 | 06/18/15 12:37 | MDL | TAL BUF |
| Total/NA | Prep | Distill/CN | | | 248306 | 06/16/15 11:10 | NDB | TAL BUF |
| Total/NA | Analysis | 335.4 | | 1 | 248571 | 06/17/15 09:37 | NCH | TAL BUF |
| Total/NA | Prep | Distill/Phenol | | | 248085 | 06/15/15 13:16 | GMG | TAL BUF |
| Total/NA | Analysis | 420.4 | | 1 | 248256 | 06/16/15 07:53 | EKB | TAL BUF |
| Total/NA | Analysis | SM 2540D | | 1 | 248261 | 06/16/15 09:21 | EKB | TAL BUF |
| Total/NA | Analysis | SM 3500 CR D | | 1 | 247936 | 06/13/15 09:15 | EGS | TAL BUF |
| Total/NA | Analysis | SM 3500 CR D | | 1 | 248605 | 06/17/15 14:12 | LMH | TAL BUF |

Client Sample ID: MH-L

Date Collected: 06/12/15 13:10

Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 248180 | 06/16/15 04:55 | LJF | TAL BUF |
| Total/NA | Prep | 3510C | | | 248229 | 06/16/15 08:39 | MCZ | TAL BUF |
| Total/NA | Analysis | 8270D LL | | 1 | 248921 | 06/19/15 03:08 | LMW | TAL BUF |
| Total/NA | Prep | 3510C | | | 248241 | 06/16/15 08:53 | MCZ | TAL BUF |
| Total/NA | Analysis | 608 | | 1 | 248383 | 06/16/15 23:03 | KS | TAL BUF |
| Total/NA | Prep | 200.7 | | | 248000 | 06/15/15 11:35 | TAS | TAL BUF |
| Total/NA | Analysis | 200.7 Rev 4.4 | | 1 | 248348 | 06/16/15 11:07 | LMH | TAL BUF |
| Total/NA | Prep | 200.8 | | | 247999 | 06/15/15 10:30 | TAS | TAL BUF |
| Total/NA | Analysis | 200.8 | | 2 | 248575 | 06/16/15 20:02 | MTM2 | TAL BUF |
| Total/NA | Prep | 245.1 | | | 248021 | 06/15/15 09:50 | LRK | TAL BUF |

TestAmerica Buffalo

Lab Chronicle

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Client Sample ID: MH-L

Date Collected: 06/12/15 13:10

Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 245.1 | | 1 | 248126 | 06/15/15 14:57 | LRK | TAL BUF |
| Total/NA | Prep | 1664A | | | 248836 | 06/18/15 12:28 | MDL | TAL BUF |
| Total/NA | Analysis | 1664A | | 1 | 248837 | 06/18/15 12:37 | MDL | TAL BUF |
| Total/NA | Prep | Distill/CN | | | 248306 | 06/16/15 11:10 | NDB | TAL BUF |
| Total/NA | Analysis | 335.4 | | 1 | 248571 | 06/17/15 09:38 | NCH | TAL BUF |
| Total/NA | Prep | Distill/Phenol | | | 248085 | 06/15/15 13:16 | GMG | TAL BUF |
| Total/NA | Analysis | 420.4 | | 1 | 248256 | 06/16/15 07:53 | EKB | TAL BUF |
| Total/NA | Analysis | SM 2540D | | 1 | 248261 | 06/16/15 09:21 | EKB | TAL BUF |
| Total/NA | Analysis | SM 3500 CR D | | 1 | 247936 | 06/13/15 09:15 | EGS | TAL BUF |
| Total/NA | Analysis | SM 3500 CR D | | 1 | 248605 | 06/17/15 14:12 | LMH | TAL BUF |

Client Sample ID: TRIP BLANK

Date Collected: 06/11/15 15:00

Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 248180 | 06/16/15 05:18 | LJF | TAL BUF |

Client Sample ID: TRIP BLANK

Date Collected: 06/10/15 05:00

Date Received: 06/13/15 02:55

Lab Sample ID: 480-82179-6

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 248180 | 06/16/15 05:41 | LJF | TAL BUF |

Laboratory References:

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

Certification Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---------------|---------------|------------|------------------|-----------------|
| Massachusetts | State Program | 1 | M-NY044 | 06-30-15 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|-----------------------------|
| 8260C | | Water | 1,2-Dimethylbenzene |
| 8260C | | Water | Benzene |
| 8260C | | Water | Ethylbenzene |
| 8260C | | Water | m-Xylene & p-Xylene |
| 8260C | | Water | Naphthalene |
| 8260C | | Water | o-Xylene |
| 8260C | | Water | Toluene |
| 8260C | | Water | Total BTEX |
| 8260C | | Water | Xylenes, Total |
| 8270D LL | 3510C | Water | Bis(2-ethylhexyl) phthalate |
| 8270D LL | 3510C | Water | Butyl benzyl phthalate |
| 8270D LL | 3510C | Water | Diethyl phthalate |
| 8270D LL | 3510C | Water | Dimethyl phthalate |
| 8270D LL | 3510C | Water | Di-n-butyl phthalate |
| 8270D LL | 3510C | Water | Di-n-octyl phthalate |
| SM 3500 CR D | | Water | Chromium, hexavalent |
| SM 3500 CR D | | Water | Cr (III) |

Method Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

| Method | Method Description | Protocol | Laboratory |
|---------------|---|-----------|------------|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | TAL BUF |
| 8270D LL | Semivolatile Organic Compounds by GC/MS - Low Level | SW846 | TAL BUF |
| 608 | Polychlorinated Biphenyls (PCBs) (GC) | 40CFR136A | TAL BUF |
| 200.7 Rev 4.4 | Metals (ICP) | EPA | TAL BUF |
| 200.8 | Metals (ICP/MS) | EPA | TAL BUF |
| 245.1 | Mercury (CVAA) | EPA | TAL BUF |
| 1664A | HEM and SGT-HEM | 1664A | TAL BUF |
| 335.4 | Cyanide, Total | MCAWW | TAL BUF |
| 420.4 | Phenolics, Total Recoverable | MCAWW | TAL BUF |
| SM 2540D | Solids, Total Suspended (TSS) | SM | TAL BUF |
| SM 3500 CR D | Chromium, Hexavalent | SM | TAL BUF |
| SM 3500 CR D | Chromium, Trivalent | SM | TAL BUF |

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: ERM-Northeast
Project/Site: Monitoring Parameters Analysis

TestAmerica Job ID: 480-82179-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 480-82179-1 | CP-4 | Water | 06/11/15 09:20 | 06/13/15 02:55 |
| 480-82179-2 | MH-Q | Water | 06/12/15 09:45 | 06/13/15 02:55 |
| 480-82179-3 | DUP-1 | Water | 06/12/15 09:30 | 06/13/15 02:55 |
| 480-82179-4 | MH-L | Water | 06/12/15 13:10 | 06/13/15 02:55 |
| 480-82179-5 | TRIP BLANK | Water | 06/11/15 15:00 | 06/13/15 02:55 |
| 480-82179-6 | TRIP BLANK | Water | 06/10/15 05:00 | 06/13/15 02:55 |

Chain of Custody Record

TestAmerica Boston
240 Bear Hill Road - Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

| | | | | | | | |
|--|----------------------------|---|----------------------------|--|---|--|--|
| Client Information: ERM | | Sample Collector's Name (Please Print Neatly): <u>Becky Mason</u> | | Lab COC Barcode Label | | COC No: <u>32485</u> | |
| Client Contact: <u>Joshua Klement</u> | | Sample Collector's Phone: <u>617-646-7800</u> | | Lab PWT: <u>Becky Mason</u> | | Page: <u>1</u> of <u>1</u> | |
| Company: <u>ERM</u> | | Quote # or Project #: <u>48012058</u> | | Job #: | | | |
| Address: <u>One Beacon St 5th Floor</u> | | Due Date Requested: | | Analysis Requested | | Preservation Codes: | |
| City: <u>Boston, MA 02108</u> | | Turnaround Time (TAT) Requested (business days): <u>5-day TAT</u> | | Total Number of Containers (enter total for each line) | | J - Deionized Water M - Hexane N - No Preservative P - Sodium Sulfate Q - Sodium Sulfite R - Sodium Thiosulfate S - Sulfuric Acid Z - other (specify) | |
| State and Zip: | | Client's Phone: <u>617-646-7800</u> | | Total Number of Containers (enter total for each line) | | Regulatory Programs: | |
| Client's Contact Email: <u>james.allen@math.daly.com</u> | | Quote # or Project #: <u>48012058</u> | | Total Number of Containers (enter total for each line) | | MCP <input type="checkbox"/> GW1/S1 <input type="checkbox"/> RCP <input type="checkbox"/> CT RSR <input type="checkbox"/> DEP Form <input type="checkbox"/> EDD Required <input type="checkbox"/> eDEP Filing <input type="checkbox"/> NPDES <input type="checkbox"/> | |
| Client's Project Name/Number: <u>0241099</u> | | PO #: | | Total Number of Containers (enter total for each line) | | SUBCONTRACT POLICY: Unless you provide in-advance to permit Test-America to use certified, subcontract labs, without any additional notification made by us, as necessary to fulfill your work order, you agree in | |
| Sample Collection Site Name & Location: <u>PUPS, Plymouth MA</u> | | WO #: | | Total Number of Containers (enter total for each line) | | Special Instructions & Notes: | |
| Sample Identification | | PWS ID #: | | Total Number of Containers (enter total for each line) | | | |
| Sample | Collection Date (MM/DD/YY) | Sample Collection Time (24 Hour Clock) | Sample Type: C=Comp G=Grab | Matrix Type ** | Preservation Codes | | |
| CP-4 | 06/11/15 | 09:26 | G | Z | 3500 CR6+CR3 | | |
| MH-Q | 06/12/15 | 09:45 | G | Z | Antimony, Arsenic, Cadmium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Zinc, Iron | | |
| DUP-1 | 06/12/15 | 09:30 | G | Z | TPH via 1664 | | |
| MH-L | 06/12/15 | 13:10 | G | Z | 8260C BTEX+A+B+C+D+E+F+G+H+I+J+K+L+N+O+P+Q+R+S+T+U+V+W+X+Y+Z | | |
| Trip Blank | 06/11/15 | 15:00 | G | Z | 4204 Total Recoverable Phenols | | |
| Trip Blank | 06/10/15 | 06:00 | G | Z | 8260C BTEX+A+B+C+D+E+F+G+H+I+J+K+L+N+O+P+Q+R+S+T+U+V+W+X+Y+Z | | |
| | | | | Barcode | | 480-82179 Chain of Custody | |
| | | | | Barcode | | 480-82179 Chain of Custody | |

Possible Hazard Identification (please check off each that may apply):
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological
**** Matrix Types:** A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: Stormwater

Relinquished by: Joshua Klement Date/Time: 6-12-15 15:30 Company: ERM
 Relinquished by: Becky Mason Date/Time: 6/13/15 17:00 Company: ERM
 Relinquished by: Becky Mason Date/Time: 6/13/15 17:00 Company: ERM

Custody Seals Intact: ☐ Yes ☐ No Custody Seal No.: 0.6, 0.4, 0.2
 Cooler Temperature(s) °C and Other Remarks: #1

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-82179-1

Login Number: 82179

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

| 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 | ERM |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | N/A | |
| Chlorine Residual checked. | True | |

Pilgrim Nuclear Power Station — Storm Drain System [print SWD1] and Selected Manholes

□ - manholes sampled

