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PHASE II ENVIRONMENTAL SITE ASSESSMENT

W.W. Cross Property
39 Webster Street
Jaffrey, New Hampshire

NH DES Site #: 198708007
Project Type: SITEEVAL
Project Number: 0037735

Prepared For:

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EXECUTIVE SUMMARY

The following report presents the findings of a Phase II Environmental Site Assessment (ESA) performed by Ransom Consulting, Inc. (Ransom) for the Southwest Region Planning Commission (SWRPC). The Phase II ESA was performed for the W. W. Cross Property located at 39 Webster Street in the Town of Jaffrey, Cheshire County, New Hampshire (the "Site").

The Site is improved with an approximately 11.29-acre parcel which is the site of the vacant 100,810 square foot W. W. Cross Factory building and a separate concrete block building housing a 20,000-gallon aboveground No. 6 oil storage tank (AST). The Site is identified by the Town of Jaffrey Assessor's Office as Lot 7.2 on Tax Map 245. At the request of the users and in consideration of the known environmental conditions of the eastern 60% of the parcel, this Phase II ESA was designed to assess the western 40% of the parcel, which is being proposed for re-development. It is Ransom's understanding that the eastern 60% of the parcel is currently identified by the New Hampshire Department of Environmental Services (NH DES) as a Groundwater Management Zone and is not currently proposed for redevelopment.

The main Site building was constructed circa 1915 as the W. W. Cross Factory, a manufacturer of tacks and fasteners, and operated as an industrial manufacturing facility until the late 1990s. Most recently, the Site was purchased at auction in 2007 by the current owner, Mr. Larry Thibeault. Subsequent uses of the Site building, which was divided into tenant spaces/units, were storage/warehouse spaces, a wood working facility, two gyms, and various uses by other tenants. Dating back to circa 2012, there have been no active business operations at the Site, and the Site building has fallen into a state of disrepair.

Municipal water and sewer services are available to the Site and surrounding properties. Prior to circa 1982, and dating back to circa 1915, industrial wastewater generated on the Site was disposed of either on the Site or immediately abutting the Site. In the early 1980s wastewater disposal volumes were approximately 30,000-gallons per day. Reportedly, waste liquids included zinc and brass plating wastes from processes involving metals (notably cadmium, hexavalent chromium, zinc, copper), cyanide, kerosene, soluble oil, cutting oil and hydraulic and lubricating oils all discharged to the facility drain systems and the "lagoon" location on the eastern 60% of the parcel. Site plans and records reviewed indicate plating operations and presumably the metals parts-washing and pickling areas connected to common floor drains and were in a portion of the building located on the central-western portion of the Site. Process-derived wastewater was not directed to the municipal sewer system until circa 1980. Wastewater was not treated prior to disposal until circa 1982, when the treatment facility was constructed as a requirement by the Town and State.

Historic maps of the Site show an underground oil storage tank (UST) located in what is now the central portion of the Site building. No documentation was identified suggesting the UST had been removed, and no additional information regarding the UST was available.

The Site is located in a mixed-use residential and commercial area, and a former railroad corridor abuts the Site to the north. Several neighboring properties have been identified as having the potential to have contributed to adverse environmental conditions at the Site.

In addition to the on-Site environmental concerns noted above, documented or potential off-Site concerns were identified that have the potential to affect groundwater or surface water quality on the Site including but not limited to: (1) a neighboring former dry-cleaning facility that has adversely impacted groundwater on numerous parcels in the vicinity of the Site and the contaminated groundwater plume may extend onto the Site; (2) an auto body shop located south of and proximal to the western portion of the Site in an inferred cross-gradient to upgradient location; (3) an auto body shop located southeast of and proximal to the eastern portion of the Site in an inferred upgradient location to the eastern portion of the property; and

(4) a former historical wood product manufacturing facility (now a shopping plaza) located to the north of the Site in an inferred cross-gradient to upgradient location to the western portion of the property.

Based on the findings of the Phase I ESA, the following recognized environmental conditions (RECs) were identified in connection with the western 40% of the Site parcel:

1. A non-compliant 20,000-gallon No. 6 oil AST.

2. Historically, an oil UST of unknown size was located south of the central portion of the Site building (as depicted on a 1924 Sanborn Map).

3. Floor drains and sumps historically received process derived wastewater, including oil and/or hazardous materials (OHM); most of these structures were closed in place.

4. The detection of low concentrations of cyanide and/or tetrachloroethylene in groundwater samples from monitoring wells MW-14 and MW-2 (located on the eastern portion of the Site), including exceedances of Ambient Groundwater Quality Standards (AGQS) as recently as 2012 and/or 2014, could indicate the potential for unassessed or unidentified source areas, including areas on the western portion of the Site.

5. A neighboring former dry-cleaning facility has adversely impacted groundwater on numerous parcels in the vicinity of the Site; the contaminated groundwater plume may extend onto the Site.

Although not considered RECs, Ransom identified the following areas of potential environmental concern (PECs) in connection with the western 40% of the Site parcel:

1. Given the unsecured nature of the Site building and the number of potential OHM containers that were observed to be remaining in the Site building, there is a threat of additional OHM releases.

2. Additional investigations are necessary to assess whether petroleum and hazardous substance handling over many years of operation in loading/unloading areas may have resulted in releases of OHM in those areas.

3. Additional investigations are necessary to assess whether potential releases of OHM from relatively high-risk properties located to the north and south have impacted groundwater quality on the Site.

To evaluate the RECs and PECs targeted for this Phase II ESA, the following six areas of concern (AOC) were developed for the Site:

1. AOC 1— Wastewater Disposal Systems (Drains & Sewer);

2. AOC 2— Former Plating Area;

3. AOC 3— Former Fuel Oil UST Area;

4. AOC 4— Inactive Fuel Oil AST Area;

5. AOC 5— Facility Loading/Unloading Areas; and

6. AOC 6— Off-Site Sources.

To assess AOC 1 through 6, Ransom designed a Phase II ESA which included the advancement of soils borings, the collection and analyses of soil samples for field screening for the presence of metals using a x-ray fluorescence (XRF) analyzer and photoionizable compounds (PICs) using a photoionization detector (PID), the selection and laboratory analyses of soil and/or concrete samples for the presence of selected metals, hexavalent chromium (if warranted based on total chromium), polynuclear aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs) including 1,4-dioxane, polychlorinated biphenyls (PCBs), total petroleum hydrocarbons (TPH)-diesel range organics (DRO) and/or total cyanide; the installation of eight monitoring wells and the collection and laboratory analyses of groundwater samples from the monitoring wells for the presence of dissolved (field-filtered) metals, dissolved (field-filtered) PAHs, VOCs, total cyanide, sulfate, and/or per and poly-fluorinated alkyl substances (PFAS) according to United States Environmental Protection Agency (U.S. EPA) methods, as appropriate.

RESULTS

The Site is generally underlain by fine to medium sands, with little fine to medium gravels and silt; with soil density and the presence of cobbles increasing with depth. The depth to groundwater ranged from 3.08 to 11.00 feet below grade. Based on the measured depth to groundwater across the Site, groundwater was inferred to generally flow to the southeast. Boring refusal with fractured/weathered rock noted at depth indicates possible bedrock refusal in soil borings B8, B9 and B11, and all interior borings located within the northernly portion of the Site building, at depths ranging from 3 to 5 feet below grade. However, it should be noted that push-probe drilling methodology cannot confirm the presence of bedrock. Several additional borings, B2 and B4 within the Site building and exterior borings B5 and B7, encountered refusals that were likely due to the presence of boulders, at depths ranging from 8 to 14 feet below grade.

The following results are indicated for each AOC:

<u>AOC 1—Wastewater Disposal Systems (Drains & Sewer)</u>

Eight interior soil borings (B1, B2, B8, B9 and B11 through B14) were advanced through the concrete floor within the Site building in areas of the building floor drains, wastewater treatment, and/or the sewer system, to address potential direct discharges to the subsurface (floor drains) and/or leaks from subsurface piping associated with the floor drains, wastewater treatment system, or sewer system. Two exterior soil borings (B3 and B15) were advanced to the southeast of the Site building, in the area of several exterior sewer manholes.

Elevated PICs (12 to 125 parts per million by volume (ppmv)) were detected in the soils from interior borings B12 and B14. Odors were noted in soils from boring B12 where a 3-inch lens of black soil was observed at a depth of approximately 2.5 feet below grade. Neither odors nor staining was noted in the soils from B14; however, PICs ranged from 46 to 124 ppmv. Elevated PICs were not detected in the other interior or exterior soil borings within the AOC.

Laboratory results for soil samples from soil boring B3 and B12 documented PAHs at concentrations exceeding their respective SRSs. No PAHs were detected above laboratory detection limits in the other soil samples analyzed for PAHs from borings B1, B9, B13, B14 and B15.

VOCs were detected in the soil borings analyzed for VOCs from borings B3, B12, B13 and B14 at concentrations below SRSs. No VOCs were detected above laboratory detection limits in the other soil samples analyzed for VOCs from borings B1 and B9.

No cyanide was detected above laboratory detection limits in the eight soil samples analyzed for cyanide from borings B1, B2, B3, B9 and B12 through B15.

TPH-DRO was detected in the soil samples analyzed from borings B1, B3, B12 and B14 at concentrations below the SRS. TPH-DRO was not detected above laboratory detection limits in the other four soil samples analyzed for TPH-DRO from borings B2, B9, B13 and B15.

Cadmium was detected in the soil sample from B2 at a concentration (253 milligrams per kilogram (mg/kg)) above the applicable SRS (33 mg/kg). The source of the cadmium is likely related to previous historic on-site operations. Metals were also detected in the soil samples from soil borings B1, B3, B9, and B12 through B15; however, at concentrations below SRSs.

Neither metals (samples from borings B1, B8, and B9) nor PCBs (borings B1 and B2) were detected above SRSs or at concentrations that would present a waste disposal concern in near-surface concrete (slab floor) samples, although PCBs were detected in CS-9 from boring B9 at 0.136 mg/kg, below the regulatory standard of 1 mg/kg for PCB remediation waste.

No dissolved (field-filtered) metals and PAHs, VOCs, PFAS (MW103 only), cyanide or sulfate were detected in the groundwater samples collected from monitoring wells MW101 and MW103 at concentrations above AGQSs.

AOC 2—Former Plating Area

Boring B2 was advanced in the center of the former plating room, and borings B16 through B19 were advanced in production areas in close proximity to the plating room. Two soil samples were selected for laboratory analyses from boring B2. Sample S3, collected from 5 to 7.5 feet below grade, was selected for only metals analyses. Laboratory results for this soil sample documented cadmium at a concentration (253 mg/kg) above its SRS (33 mg/kg) for sample B2-S3. Other metals were also detected in this soil sample; however, at concentrations below SRSs.

Sample S4, collected from 7.5 to 9 feet below grade, was also selected for laboratory analyses. With the exception of acetone (likely a laboratory contaminant) detected in soil sample B2-S4, no VOCs were detected above laboratory detection limits. No PAHs, cyanide or TPH-DRO were detected in soil sample B2-4 above laboratory detection limits.

For the soil borings B16 through B19, one soil sample was selected from each boring for laboratory analyses for VOCs, total cyanide, and the 13 primary pollutant metals. Sample B16-S4 was collected from 7.5 to10 feet below grade, samples B17-S3 and B18-S3 were collected from 5.0 to 7.5 feet below grade, and sample B19-S2 was collected from 2.5 to 5.0 feet below grade.

With the exception of arsenic detected in soil sample B18-S3 at a concentration of 20 mg/kg, above the SRS (11 mg/kg), metals were not detected in soil samples submitted at concentrations above the applicable SRS. No VOCs were detected above SRSs in the soil samples submitted. Total cyanide was not detected at concentrations above the laboratory detection limits in the soil samples submitted from these borings.

With the exception of an arsenic SRS exceedance in one sample (sample from boring B18), neither metals (all samples) nor PCBs (boring B2) were detected above SRSs or at concentrations that would present a waste disposal concern in near-surface concrete (slab floor) samples from borings (B2, and B16 to B19).

Tetrachloroethene (PCE; at a concentration of 5.8 micrograms per liter (µg/L)) was detected in the groundwater sample collected from monitoring well MW102 (installed in B2) at a concentration above

the AGQS for PCE of 5 µg/L. It is unclear with existing information whether the source of the PCE is related to previous historic on-site operations or part of the plume associated with the up-hydraulic gradient northwestern neighboring Elite Laundry site.

Cyanide (at a concentration of 512 µg/L) was detected in the groundwater sample collected from monitoring well MW102 at a concentration above the AGQS for cyanide of 200 µg/L. The source of the cyanide is likely associated with previous on-site operations.

No dissolved PAHs and metals, PFAS or sulfate were detected in the groundwater samples collected from monitoring well MW102 at concentrations above AGQSs.

AOC 3—Former Fuel Oil UST Area

Borings B4, B20 and B21 were advanced in the Site building in the inferred area of a former fuel oil UST. Elevated PICs (13 to 21 ppmv) were detected in the soil from borings B4 and B21. Elevated PICs were not detected in soils from boring B20.

Laboratory results for soil sample B21 documented concentrations of the VOCs benzene (estimated at 0.0049 mg/kg) and acetone (estimated at 0.00036 mg/kg) below the SRS for each compound (0.3 and 75 mg/kg, respectively). No other VOCs, or PAHs and TPH-DRO, were detected above laboratory detection limits in this soil sample.

No VOCS, PAHs or TPH-DRO were detected above laboratory detection limits in soil sample B4. No soil samples were collected from B20 for laboratory analyses.

Tetrachloroethene (PCE; at a concentration of 8.6 µg/L) was detected in the groundwater sample collected from monitoring well MW104 (installed in B21) at a concentration above the AGQS for PCE of 5 µg/L. It is unclear with the existing information whether the source of the PCE is related to either the previous historic on-site operations or the plume associated with the up-hydraulic gradient northwestern neighboring Elite Laundry site.

No dissolved PAHs and metals, or sulfate were detected in the groundwater samples collected from monitoring well MW104 at concentrations above AGQSs.

AOC 4—Inactive Fuel Oil AST Area

Borings B5 and B22 were advanced adjacent to the inactive fuel oil AST, between the AST building and the former boiler room. Laboratory results for soil samples from soil boring B5 and B22 documented PAHs at concentrations exceeding their respective SRSs.

Laboratory results for soil sample B5 documented the VOC methylene chloride (possibly a laboratory contaminant, estimated at 0.14 mg/kg) at a concentration slightly above its SRS (0.1 mg/kg). Other VOCs were detected in this sample, as well as in the sample from B5; however, at concentrations below SRSs. The PAH benzo(a)pyrene was detected in soil samples B5-S3 and B22-S2 at concentrations of 3.6 and 0.79 mg/kg, respectively, above the SRS for this compound (0.7 mg/kg). Additional PAHs were detected in the soil sample from B5 at concentrations above the applicable SRSs, including benzo(a)anthracene (4.8 mg/kg), benzo(b)fluoranthene (4.4 mg/kg), and indeno(1,2,3-cd)pyrene (2.3 mg/kg). TPH-DRO was detected in the soil samples from B5 and B22 at concentrations below the SRS.

No VOCS or dissolved PAHS were detected in the groundwater samples collected from monitoring well MW105, installed inferred downgradient of the inactive fuel oil AST in B5, at concentrations above AGQSs.

AOC 5—Facility Loading/Unloading Areas

Boring B6 was advanced in the area of western loading docks, boring B26 was advanced in the area of the southern loading dock, and borings B23 through B25 were advanced in the area of loadings docks facing the former rail-road siding along the northern side of the Site building.

Laboratory results for the soil sample B6 documented the VOCs methylene chloride (estimated at 0.0023 mg/kg) and acetone (0.055 mg/kg), both possible laboratory contaminants, at concentrations below their SRSs. No other VOCs were detected in B6 above laboratory detection limits. VOCs (including naphthalene at 24 mg/kg) were detected in soil sample B26 at concentrations below SRSs. No soil samples were collected from B23, B24 and B25 for VOC laboratory analyses.

Laboratory results for soil samples from soil boring B23, B24, B25 and B26 documented the PAHs benzo(a)anthracene, benzo(a) pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene, all at concentrations exceeding their respective SRSs. In addition, the PAH dibenzo(a,h)anthracene was detected in boring B25 above the applicable SRS. PAHs were also detected in soil sample B6; however, at concentrations below SRSs.

Metals and TPH-DRO were detected in borings B6 and B23 through B26 at concentrations below SRSs.

The VOC naphthalene was detected at a concentration of 180 µg/L, above its AGQS of 100 µg/L, in the groundwater sample from MW108 (installed in B26) in the southern facility loading/unloading area. No dissolved PAHs and metals, cyanide or sulfate were detected in the groundwater sample at concentrations above AGQSs.

No dissolved PAHs and metals, VOCs, cyanide or sulfate were detected in the groundwater samples collected from monitoring wells MW106 installed in B6 to assess the northwestern facility loading/unloading area, at concentrations above AGQSs.

AOC 6—Off-Site Sources

Boring B7 was advanced near the southern Site boundary in an inferred downgradient location relative to an abutting auto repair garage, Finish Line Auto Collision Repair, located on the opposite side of Webster Street. No soil samples were selected for laboratory analyses from this boring.

No VOCS or dissolved (field-filtered) PAHs and metals were detected in the groundwater samples collected from monitoring well MW107, located along the southern property boundary, at concentrations above AGQSs.

MW106, for which results are reported under AOC 5, also documents no impacts to groundwater in that specific area from potential off-site sources to the north and west.

CONCLUSIONS

Based on the information collected as part of this assessment RECs identified in the Phase I ESA were confirmed, discounted or undetermined as follows:

1. Non-compliant 20,000-gallon No. 6 oil AST: Confirmed. The PAHs documented in soil at B5 and B22 may be indicative of a release of No. 6 oil in that area adjoining the inactive fuel oil AST. The soils are in a paved area and do not present an immediate human risk exposure. Although there were no exceedances of AGQSs, VOCs including

naphthalene (30 µg/L) were detected in the groundwater sample collected from the monitoring well (MW105) installed in this area.

2. Historic oil UST (size unknown) located south of the central portion of the Site building: Discounted (for petroleum). Evidence of a petroleum release was identified; however, no violations of soil or groundwater standards were documented.

3. Floor drains and sumps that historically received process derived wastewater: Confirmed. Cadmium in soil at boring B2 and cyanide in groundwater at MW102 (installed in B2) are likely associated with a release of wastewaters or plating solutions in the former industrial wastewater/plating area. The sample soils are beneath a concrete slab and do not present an immediate human exposure risk. PCE impacts in the area of MW102 and MW104 (above AGQS) could also be related to an on-Site release or, alternatively to the remnants of a plume from a neighboring off-Site source.

4. Contaminated groundwater (cyanide and PCE exceeding AGQSs) in monitoring wells located on the eastern portion of the Site that could indicate the potential for unassessed or unidentified source areas, including areas on the western portion of the Site: Confirmed. Cyanide was detected in groundwater above AGQS in the wastewater/plating area. As noted above, PCE impacts in the area of MW102 and MW104 (above AGQS) could be related to an on-Site release or, alternatively to the remnants of a plume from a neighboring off-Site source.

5. A neighboring former dry-cleaning facility has adversely impacted groundwater on numerous parcels in the vicinity of the Site; the contaminated groundwater plume may extend onto the Site: Undetermined. Additional investigations within and north of the Site building need to be conducted to determine if PCE is migrating onto the northern portion of the Site.

In assessing the other identified AOCs, Ransom concludes the following:

1. The source of the PAHs in the area of boring B3 from 5 to 8 feet bgs (above the groundwater table) is unclear but may be related to backfilled soil near sewer infrastructures or another unknown source.

2. The PAHs in soil at boring B12 and B26 that exceed SRSs as well as naphthalene in groundwater at MW108, are likely associated with a release (or releases) of a petroleum or a petroleum-like product. The source of an exceedance of arsenic in soil at nearby B18 is unclear; however, no staining similar to that noted at B12 and B25 was observed in soil from this boring. The impacts to soils were documented beneath pavement or concrete and do not present an immediate human exposure risk.

3. The PAHs in soil samples collected from adjacent to a railroad corridor are inferred to constitute a background condition per Env-Or 600 (presence of coal combustion residuals in urban fill).

RECOMMENDATIONS

Based on the data collected during this investigation, additional investigation is warranted. Ransom recommends additional assessment to further delineate the extent of:

1. Cadmium, cyanide and PCE impacts to soils and/or groundwater in proximity to the former plating and wastewater treatment areas near MW102/B2;

2. PCE impacts to groundwater as was documented in the sample collected from monitoring well MW104 (in conjunction with MW102 area investigations); and

3. PAH impacts to soil broadly in the area of B12 and B26, and naphthalene impacts to groundwater as was documented in the sample collected from exterior monitoring well MW108.

Contaminant levels detected in soils in some locations on Site (i.e., the railroad corridor) are consistent with background conditions or in most locations assessed do not rise to the level requiring remedial action and could likely be managed in place. However, soils with relatively low-level and mid-level contaminants would/could be subject to regulation and re-use restrictions if excavated and relocated on Site and/or removed from the property.

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Appendix B. Laboratory Analytical Reports

1.0 INTRODUCTION

Ransom Consulting, Inc. (Ransom) is pleased to present this report documenting a Phase II Environmental Site Assessment (ESA) for the W. W. Cross Property located at 39 Webster Street in the Town of Jaffrey, Cheshire County, New Hampshire (the "Site"). The Site includes an approximately 11.29-acre parcel which is the site of the vacant 100,810 square foot W. W. Cross Factory building and a separate bulk aboveground storage tank (AST) structure. The Site is identified by the Town of Jaffrey Assessor's Office as Lot 7.2 on Tax Map 245. At the request of the users and in consideration of the known environmental conditions of the eastern 60% of the parcel, the Phase II ESA proposed herein has been designed to assess the western 40% of the parcel, which is being proposed for re-development. It is Ransom's understanding that the eastern 60% of the parcel is currently identified by the New Hampshire Department of Environmental Services (NH DES) as a Groundwater Management Zone and is not currently proposed for redevelopment.

Refer to the attached Site Location Map (Figure 1) to view the general location of the Site on a 7.5-minute topographic quadrangle.

This report was prepared for the Southwest Region Planning Commission (SWRPC), who received a United States Environmental Protection Agency (U.S. EPA) Brownfields Assessment Grant to conduct site assessments and investigations at properties within the region with the intent to revitalize underutilized properties.

The work was completed in accordance with Ransom's Site-Specific Quality Assurance Project Plan (SSQAPP) for the W. W. Cross Site, dated June 16, 2017 and a SSQAPP addendum dated August 3, 2018. The SSQAPP was reviewed and approved by the NH DES and the U.S. EPA prior to implementation of the field activities.

1.1 Purpose

The objectives of this Phase II ESA are to evaluate and investigate the recognized environmental conditions (RECs) and/or areas of potential environmental concern (PECs) identified in a Phase I ESA, dated October 31, 2017, prepared by Ransom.

1.2 Special Terms and Conditions

This Phase II ESA was conducted in accordance with our executed Scope of Work, dated July 2, 2018 and Change Orders dated August 13 and 31, 2018. Authorization to perform this Phase II ESA was provided by SWRPC.

The services and the contents of any project reports and associated documents provided by Ransom are solely for the benefit of SWRPC, and its Brownfields Program, their affiliates and subsidiaries, and their successors, assigns, and grantees. Reliance or use by any such third party without explicit authorization in the report does not make said third party a third-party beneficiary to Ransom's contract with SWRPC. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

1.3 Limitations and Exceptions of Assessment

The Phase II ESA was executed in general accordance with the scope of work proposed in the SSQAPP. Revisions to the proposed scope of work and methodologies were implemented based on conditions encountered in the field, namely the installation and sampling of one additional monitoring well in a location identified as a candidate location in the work plan and the SSQAPP, contingent on observed conditions, which was approved by the NH DES and U.S. EPA for the work presented in SSQAPP Addendum dated August 3, 2018. Any revisions to the scope of work or methodologies outlined in the SSQAPP are discussed in Section 2.0 (Investigation Methodology).

1.4 Site Description and Setting

The Site includes an approximately 11.29-acre parcel which is the site of the vacant 100,810 square foot W. W. Cross Factory building and a separate bulk aboveground storage tank (AST) structure. The Site is identified by the Town of Jaffrey Assessor's Office as Lot 7.2 on Tax Map 245. At the request of the users and in consideration of the known environmental conditions of the eastern 60% of the parcel, this Phase II ESA was designed to assess the western 40% of the parcel, which is being proposed for re-development. It is Ransom's understanding that the eastern 60% of the parcel is currently identified by the NH DES as a Groundwater Management Zone and is not currently proposed for redevelopment.

For the western 40% of the parcel that is the subject of this Phase II ESA, the Town of Jaffrey intends to engage a consultant to help with a public visioning process for the Site. Notwithstanding the outcome of the visioning process, the Town is aware that there is the need for a supermarket in the area, and that is one land use consideration for the centrally located property.

The Site building was constructed circa 1915 as the W. W. Cross Factory, a manufacturer of tacks and fasteners, and operated as an industrial manufacturing facility until the late 1990s. Most recently, the Site was purchased at auction in 2007 by the current owner, Mr. Larry Thibeault. Subsequent uses of the Site building, which was divided into tenant spaces/units, were storage/warehouse spaces, a wood working facility, two gyms, and various other tenants. Dating back to circa 2012, there have been no active business operations at the Site, and the Site building has fallen into a state of disrepair. Additional structures and features on the western 40% of the Site include a concrete block structure housing a 20,000-gallon No. 6 oil AST which is not in compliance with applicable rules, is the site of a reported release of fuel oil (20 gallons, estimated) and historically fueled boilers which provided the Site building with heat.

The properties abutting the Site are primarily residential along Webster Street, with the exception of two auto body shops, a Head Start preschool, and the American Legion Hall. Properties abutting the Site to the north, beyond the drainage swale, include a retail shopping plaza and a court house with frontage along Peterborough Road (Route 202). The east abutting property is a vegetated parcel which was historically a portion of the Site; this parcel was the location of an infiltration bed/surface impoundment area which received industrial process wastewater historically generated at the Site building.

The Site and abutting/neighboring properties are serviced by the municipal water supply and wastewater collection systems operated by the Town of Jaffrey. Currently, utility services have been interrupted/discontinued to the Site building, which has remained vacant for approximately six years.

The Site is located in a mixed-use residential and commercial area, and a former railroad corridor abuts the Site to the north. Several neighboring properties have been identified as having the potential to have contributed to adverse environmental conditions at the Site.

The topography of the Site is generally level on the developed portion of the Site; with a relatively abrupt downward slope east of the Site building leading to the two ponds located at the eastern extent of the Site. The vegetated slope is the area of the capped tack/waste pile landfill detailed throughout this report. Directly beyond the ponds, and only a few feet elevated relative to the water bodies, is the east abutting parcel which historically served as a surface impoundment area for process derived wastewater generated at the Site. Refer to the attached Site Location Map (Figure 1) to view the general location of the Site on a 7.5-minute topographic quadrangle.

A property boundary survey was not completed as part of this investigation. The property boundaries shown on the attached figures are approximate based on Town of Jaffrey tax maps.

Refer to the attached Site Area Plan and the Site Plan (Figure 2 and Figure 3, respectively) for a layout of the Site and the locations of key Site features.

1.5 Recognized Environmental Conditions

A Phase I ESA was conducted by Ransom to evaluate the Site for evidence of RECs using the procedures set forth in the requirements of ASTM International Designation: E1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13). The following provides a summary of some of the key findings presented in the Phase I ESA report dated November 1, 2017.

The Phase I ESA was performed for the entire Site parcel, including the eastern 60% of the property that is designated as a Groundwater Management Zone. The eastern portion of the property includes a fenced grassed area which slopes steeply downward to two waterbodies (a "fire pond" which is separated by a berm from a second pond located further to the south). Both of the water bodies are located near the eastern property boundary. The sloped grassed area is the engineered vegetated cap associated with a closed landfill located on the Site. According to previous environmental reports, this earthen cap was installed as a remedial measure for a "tack dump" disposal area, after the removal of targeted soils with elevated cyanide (and metals) concentrations. According to these previous reports, waste tacks and other waste materials generated by the operations conducted in the Site building from circa 1915 to the mid-1970s were dumped over the banking on this portion of the Site. Environmental investigations related to the tack pile/dump began in December 1993; subsequently, a Remedial Action Plan (RAP) was developed and approved by the NH DES, leading to the targeted soil removals and the November 1999 construction of the capping system over the tack pile.

During a reconnaissance of the Site on May 11, 2017. Ransom observed the storage of suspect hazardous substances and petroleum products related to storage by the current Site owner, former Site tenants, and/or past maintenance of the Site. Ransom also observed concrete patches associated with former floor drains, trenches/sumps, metal plating facilities, and the former wastewater treatment facility (constructed circa 1982). Process-derived effluent, including oil and/or hazardous materials (OHM) associated with the manufacturing operations historically conducted onsite, is known to have been directed to these drains/sumps and piped to a surface impoundment area on the east abutting property. Loading docks and historic loading/unloading areas were noted in connection with the Site building that likely included

handling of OHM as part of the manufacturing activities along west, south and east sides of the building as well as along the north side of the building adjacent to a former railroad spur.

In addition to the on-Site environmental concerns noted above, the following documented or potential off-Site concerns were identified that have the potential to affect groundwater or surface water quality on the Site:

1. A neighboring former dry-cleaning facility has adversely impacted groundwater on numerous parcels in the vicinity of the Site, including the detection of impacted groundwater above applicable state standards immediately abutting the Site and in an inferred upgradient position; the contaminated groundwater plume may extend onto the Site.

2. An auto body shop which, by industry type, typically use hazardous substances and is a Resource Conservation and Recovery Act (RCRA) generator, is located south of and proximal to the western portion of the Site in an inferred cross-gradient to upgradient location.

3. An auto body shop which, by industry type, typically used hazardous substances and is a RCRA generator, is located southeast of and proximal to the eastern portion of the Site in an inferred upgradient location to the eastern portion of the property.

4. A former historical wood products manufacturing facility (now a shopping plaza) is located to the north of the Site in an inferred cross-gradient to upgradient location to the western portion of the property.

Based on the findings of the Phase I ESA, the following RECs were identified in connection with the western 40% of the Site parcel:

1. A non-compliant 20,000-gallon No. 6 oil AST is located in a cement block structure on the Site; the condition of the AST, and the volume of oil remaining in the tank, if any, is unknown; the ground surface beneath the tank could not be viewed to look for staining; it is the site of a reported release of fuel oil to the ground surface; and a release of vermiculite (presumed asbestos-containing) was noted on the ground surface adjacent to the cement block structure.

2. Historically, an oil underground storage tank (UST) (size unknown) was located south of the central portion of the Site building (as depicted on a 1924 Sanborn Map), this area is now occupied by the central portion of the Site building; no records identifying the removal of this UST were identified during the course of the Phase I ESA; the historic presence of this UST and associated petroleum storage had the potential for adverse impacts to Site soils and/or groundwater.

3. Floor drains and sumps historically received process-derived wastewater, including OHM, across the manufacturing/industrial portions of the Site building; most of these structures were closed in place and potential impact to Site soils and/or groundwater beneath and adjacent to these drains/sumps has not been assessed.

4. The detection of low concentrations of cyanide and/or tetrachloroethylene in groundwater samples from monitoring wells MW-14 and MW-2 (located on the eastern portion of the Site), including exceedances of Ambient Groundwater Quality Standards (AGQS) as recently as 2012 and/or 2014, could indicate the potential for unassessed or unidentified source areas, including areas on the western portion of the Site.

5. A neighboring former dry-cleaning facility has adversely impacted groundwater on numerous parcels in the vicinity of the Site, including the detection of impacted groundwater above applicable state standards immediately abutting the Site and in an inferred upgradient position; the contaminated groundwater plume may extend onto the Site.

Although not considered RECs, Ransom identified the following areas of PECs in connection with the western 40% of the Site:

1. Given the unsecured nature of the Site building and the number of potential OHM containers that were observed to be remaining in the Site building, there is a threat of additional OHM releases.

2. Additional investigations are necessary to assess whether petroleum and hazardous substance handling over many years of operation in loading/unloading areas may have resulted in releases of OHM in those areas.

3. Additional investigations are necessary to assess whether potential releases of OHM from relatively high-risk properties located to the north and south have impacted groundwater quality on the Site.

To evaluate the RECs and PECs targeted by this Phase II ESA, six areas of concern (AOCs) were identified on the Site and are briefly summarized below along with the scope of work to evaluate each AOC. Refer to Ransom's approved SSQAPP for this Phase II ESA, dated August 3, 2018, for further details pertaining to these AOCs as well as the scope of work.

1.5.1 Areas of Concern

AOC 1—Wastewater Disposal Systems (Drains & Sewer)

Prior to circa 1982, and dating back to circa 1915, industrial wastewater generated on the Site was disposed of either on the Site or immediately abutting the Site; with historic disposal volumes reported in the early 1980s to be at a rate of 30,000-gallons per day. Reportedly, waste liquids included zinc and brass plating wastes from processes involving metals (notably cadmium, hexavalent chromium, zinc, copper), cyanide, kerosene (300 gallons/year), soluble oil (1,100 gallons per year), cutting oil (150 gallons per year) and hydraulic and lubricating oils (100 gallons per year), all discharged to the facility drain systems and the "lagoon" (aka the eastern pond(s)). Site plans and records reviewed indicate plating operations and presumably the metals parts washing, and pickling area connect to common floor drains and were in a portion of the building located on the central-western portion of the Site. Process-derived wastewater was not directed to the municipal sewer system until circa 1980. Wastewater was not treated prior to disposal until circa 1982, when the treatment facility was constructed as a requirement by the Town and State.

Contaminants associated with the historic waste water disposal practices have the potential to have impacted soils in the area of the building floor drains and/or the sewer system as a result of direct discharge to the subsurface (floor drains) and/or leaks from subsurface piping associated with the floor drains or sewer system. Due to the large volumes of waste water formerly generated at the facility, it is likely that contaminants leached from the soil and impacted groundwater on the central/western portion of the Site. Contaminants of concern include volatile organic compounds (VOCs), semi-volatile compounds (polynuclear aromatic hydrocarbons (PAHs)), petroleum products, metals including hexavalent chromium, cyanide, sulfate, and polychlorinated biphenyls (PCBs). The possible historical use of per- and poly-fluorinated alkyl substances (PFAS) is unknown. These contaminants may represent a direct contact exposure risk to future site workers if soils are excavated or exposed, or if groundwater is encountered during redevelopment activities. In addition, certain contaminants including PCBs and metals may have been absorbed by the concrete floor of the Site building. Workers or future building occupants may be exposed to these contaminants via direct contact with the building floor.

The scope of this Phase II ESA includes investigations to identify or dismiss potential adverse impacts to Site soils and/or groundwater from the wastewater disposal systems.

AOC 2—Former Plating Area

The former plating area includes a former waste water treatment system that was installed in 1983. The waste water treatment system was required by the New Hampshire Department of Health and Welfare to provide pre-treatment of waste water prior to discharge to the municipal sewer system. Prior to the installation of the waste water treatment system, waste water was discharged to a surface impoundment area located on a neighboring property.

Activities historically conducted, and OHM uses in the former plating area included zinc plating baths, brass plating baths and rinses, degreasers, pickling liquors, and other hazardous or non-hazardous wastes, including cyanide. Contaminants associated with these uses may have entered the environment as a result of direct discharge and/or leaks from the floor drains or municipal sewer system. These contaminants may also have been absorbed by the concrete floor in the former plating area. These contaminants may represent a direct contact exposure risk to future Site occupants or workers if the proposed redevelopment activities cause occupants or workers to come into contact with contaminated concrete, soil, or groundwater.

The scope of this Phase II ESA includes investigations to identify or dismiss potential adverse impacts to Site soils and/or groundwater, and concrete floors, from the former plating area.

AOC 3—Former Fuel Oil UST Area

During Ransom's review of historical documentation related to the Site, a UST was identified on a 1924 Sanborn fire insurance map. The UST was labeled as an oil storage tank and was located south of the configuration of Site building at that time. The capacity of the UST was not noted. No piping associated with the UST, or former boiler rooms, were detailed on the 1924 Sanborn map; nor were there any details pertaining to how the Site building was heated. Later Sanborn maps, dated 1941 and 1953, show the Site building as having a larger building footprint which covers the area in which the UST was located. No USTs are detailed on the Site in these more recent Sanborn maps, and the heat source for the Site building is identified as steam, generated by a north-abutting woodworking factory.

No records documenting the removal of the historic UST were identified during the Phase I ESA. It is not clear if the UST was removed when the building footprint was expanded, or if the historic UST remains beneath the building. Soil and groundwater conditions in the area of the historic UST may have been impacted by petroleum contaminants as a result of leaks or overfills. Contaminated soils or groundwater in the area of the historic UST may represent an exposure risk to future building occupants or site workers if these materials are exposed as a result of property redevelopment.

The scope of this Phase II ESA includes investigations to identify or dismiss potential adverse impacts to Site soils and/or groundwater from the former fuel oil UST area.

AOC 4—Inactive Fuel Oil AST Area

A concrete block structure housing a 20,000-gallon No. 6 oil AST is located west of the Site building. The AST could not be directly viewed due to the presence of vermiculite insulation surrounding the AST, and the lack of adequate access.

The AST is registered with the NH DES. Correspondence from the NH DES dated January 25, 2017 indicates "potential aboveground storage tank closure violations" associated with this AST. The NH DES requested information pertaining to the date oil was last introduced or removed from the AST; the current condition of the AST, based on an internal and external inspection of the tank; and an inspection of the piping system and any leak detection systems. No response has been made to the NH DES. Ransom did not identify documentation indicating the removal of remaining No. 6 oil or any formal closure documentation relating to this AST. It is unclear if petroleum remains within the AST.

Petroleum may have been released to the ground surface in the area of the AST as a result of leaks or overfills. The contaminants have the potential to have impacted soil and/or groundwater conditions in the area of the AST. These contaminants may represent an exposure risk to future building occupants and/or Site workers if soil or groundwater in this area is exposed during the proposed property redevelopment.

The scope of this Phase II ESA includes investigations to identify or dismiss potential adverse impacts to Site soils and/or groundwater from the inactive fuel oil AST area.

AOC 5—Facility Loading/Unloading Areas

Loading docks were identified adjacent to the northwest and southwest areas of the Site building. Additionally, the northern side of the Site building was identified as a potential loading/unloading area associated with the former rail road corridor to the north of the Site. It is presumed that OHM used in the facility processes was regularly handled and transported through these areas. Environmental conditions in these areas may have been impacted by contaminants of concern as a result of leaks or surface spills from containers. These contaminants have the potential to represent an exposure risk to future building occupants or Site workers who may be exposed through direct contact or inhalation of fugitive dust.

The scope of this Phase II ESA includes investigations to identify or dismiss potential adverse impacts to Site soils and/or groundwater from the facility loading/unloading areas.

AOC 6—Off-site Sources

Research conducted as part of the Phase I ESA identified several off-site properties that had the potential to have impacted groundwater or surface water quality at the Site. These properties include a neighboring former dry-cleaning facility located to the west of the Site; an automotive collision repair facility located to the southwest of the Site; an auto body shop located to the southeast of the Site, and a former historical wood product manufacturing facility located to the north of the Site. Contaminants of concern associated with these off-site properties include volatile compounds, semi-volatile compounds (PAHs), petroleum products, and metals. These contaminants would be expected to be migrating onto the Site property in the dissolved-phase as a result of transport with the overall groundwater flow direction.

The scope of this Phase II ESA includes investigations to identify or dismiss potential adverse impacts to Site groundwater originating from off-site sources.

2.0 INVESTIGATION METHODOLOGY

Based on the findings of Ransom's 2017 Phase I ESA, a sampling program was developed to investigate the extent of potential soil and groundwater contamination on the western 40% of the Site.

As noted above, contaminants of concern (COCs) evaluated as part of this Phase II ESA include: Priority Pollutant metals (including antimony (Sb), arsenic (As), beryllium (Be), cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb), mercury (Hg), nickel (Ni), selenium (Se), silver (Ag), thallium (Tl) and zinc (Zn)), VOCs, PFAS, PAHs, total petroleum hydrocarbon-diesel range organic (TPH-DRO), PCBs, cyanide and sulfate.

These COCs were selected based on likely historical use, storage, disposal, and/or documented and potential releases of various chemicals and wastes on the Site. These contaminants were perceived to have had the potential to impact surficial soils, subsurface soils, and/or groundwater on-site. Potential exposure routes associated with these COCs include direct contact with impacted soils; direct contact with impacted groundwater; ingestion of contaminated soil or ingestion/inhalation of airborne dust, particularly during any construction activity at the Site; and ingestion of contaminated groundwater (although nearby potable use of groundwater is known).

As noted in Section 1.5.1 in greater detail and as fully elaborated in the SSQAPP, the scope of work for the Phase II ESA includes the advancement of soil borings, the collection of soil samples from the soil borings, the collection of concrete samples from select borings, the collection of near surface and sub-surface soil samples, the installation of monitoring wells, and the collection of groundwater samples from the monitoring wells. Sample locations for the Phase II ESA are shown on the attached Figure 3.

On August 15, 16 and 17, 2018, Ransom oversaw the advancement of twenty-five soil borings (B1 through B26, except for B10 which was not advanced due to time constraints) throughout the areas of concern on the Site by Eastern Analytical, Inc. (EAI) and Ransom in order to collect soil samples for field screening and laboratory analyses. Eight of the borings (B1 through B7 and B26) were completed as groundwater monitoring wells (MW101 through MW108, respectively). Soil boring locations are shown on Figure 3. Soils encountered in the soil borings were generally classified using the Burmister Soil Classification System. Soil samples collected from the borings were screened in the field for total VOCs using a MiniRAE 2000 photoionization detector (PID) calibrated with 100 parts per million by volume (ppmv) isobutylene and corrected to read as benzene. In addition, the soil samples were field-screened for metals using an x-ray fluorescence (XRF) analyzer. Soil samples were collected for laboratory analysis from locations and depth intervals selected based on visual and olfactory observations and field screening results, as described in the SSQAPP. Based on field screening results, observations and/or location, at least one soil sample was collected from twenty-one of the soil borings (see Table 2) for laboratory analysis of the specific COCs for the given AOC. Soil boring logs documenting soil profiles, observations, and PID field screening results are included in Appendix C. Results of XRF screening of soil samples are provided in Table 1. Samples selected for laboratory analyses are indicated in bold and italics in that table. Soil samples were submitted for laboratory analysis for the specific parameters previously specified for each AOC. Soil laboratory analytical results for the selected samples are provided in Table 2. Results are summarized in Section 3.0, below.

During the initial advancement of eight of the borings (B1, B2, B8, B9 and B16 through B19), Ransom collected concrete dust samples (designated CS-1, CS-2, CS-8, CS-9 and CS-16 through CS-19, respectively) from the top ½ inch of concrete in accordance with the U.S. EPA Region I "Standard

Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls (PCBs)," dated May 5, 2011.

The concrete dust samples were submitted for laboratory analysis for the specific parameters previously specified for each AOC for that media. Concrete dust laboratory analytical results for the selected samples are provided in Table 3. Results are summarized in Section 3.0, below.

Groundwater sampling activities were conducted on September 6, 2018. Measurements of static water levels are summarized in Table 4. Groundwater samples were collected from the eight newly-installed monitoring wells (MW101 through MW108) utilizing low-flow sampling procedures. Groundwater sampling logs documenting the field parameters recorded during the low-flow sampling activities are included in Appendix C.

Groundwater samples were submitted for laboratory analysis of dissolved metals, dissolved PAHs (including 1,4-dioxane by selective ion monitoring), VOCs, PFAS, cyanide and sulfate. Groundwater samples collected for metals and PAH analyses were field-filtered. The locations of the monitoring wells were surveyed to a common datum and are shown on the attached Site Plans.

Field duplicate samples were collected for each matrix/analysis and laboratory analyzed for quality assurance purposes (summarized in Section 4.0).

Soil and groundwater samples were collected directly from sampling equipment into laboratory-prepared sample containers and placed on ice. All samples collected for laboratory analysis during the Phase II ESA were handled and transported under chain-of-custody procedures. Chain-of-custody documentation is included in the laboratory reports (Appendix B). The soil and groundwater samples were delivered to Alpha Analytical (Alpha) of Portsmouth, New Hampshire.

3.0 RESULTS

The following subsections document the results of the Phase II ESA activities. XRF field screening measurements are summarized in Table 1 and groundwater field parameter measurements are summarized in Table 4. Analytical results are summarized by media in Table 2 (soil), Table 3 (concrete) and Table 5 (groundwater). A summary of duplicate soil sample analytical results is presented in Table 6. Groundwater sample duplicate results are included in Table 5. Certified laboratory analytical reports are included in Appendix D.

Analytical results were compared to regulatory guidelines presented in the SSQAPP. The regulatory guidelines include the following:

1. NH DES Env-Or 600 SRS;
2. U.S. EPA Regional Screening Levels (RSLs);
3. NH DES AGQS; and
4. U.S. EPA Maximum Contaminant Levels (MCLs).

Soil analytical results were compared to the NH DES SRS, and in addition, to NH DES Risk Characterization Management Policy (RCMP) Method 1 NH S-1, S-2 and S-3 standards. For detected contaminants that do not have an established SRS, the concentrations were compared to the corresponding U.S. EPA RSLs. Groundwater analytical results were compared to the NH DES AGQS and the U.S. EPA MCLs.

3.1 Geology and Hydrogeology

Based on observations made by Ransom during this Phase II ESA, the Site is generally underlain by fine to medium sands, with little fine to medium gravels and silt; with soil density and the presence of cobbles increasing with depth.

The depth to groundwater ranged from 3.08 to 11.00 feet below grade. Depth to groundwater measurements are presented in Table 4. Based on the measured depth to groundwater across the Site, groundwater was inferred to generally flow to the southeast. A groundwater flow map is included as Figure 4 and presents the linear interpolation of static water elevations across the Site based on the depth to groundwater as measured at each monitoring well on the sampling date (September 6, 2018). The depth to groundwater is deepest along the southeastern portion of the property and shallowest along the western portion of the property.

The bedrock stratigraphic unit underlying the Site and vicinity is mapped on the Bedrock Geologic Map of New Hampshire (1997), as the Spaulding Tonalite (Spaulding Quartz Diorite of Fowler-Billings, 1949 (Early Devonian)) (Ds1-6); detailed as weakly foliated to nonfoliated, spotted biotite quartz diorite, tonalite, granodiorite, and granite. Boring refusal with fractured/weathered rock was noted at depth indicating possible bedrock refusal in soil borings B8, B9 and B11, and all interior borings located within the northernly portion of the Site building, at depths ranging from 3 to 5 feet below grade. However, it should be noted that push-probe drilling methodology cannot unequivocally confirm the presence of bedrock. Several additional borings, B2 and B4 within the Site building and exterior borings B5 and B7,

encountered refusals that were likely due to the presence of boulders, at depths ranging from 8 to 14 feet below grade.

3.2 Soil

Soil samples were collected for laboratory analyses from twenty-two of the twenty-five soil borings from the depth interval(s) where evidence of contamination was identified based on field screening results and/or visual and olfactory observations. XRF field screening results of the soil samples are presented in the attached Table 1. Analytical results of soil samples are presented in the attached Table 2.

A summary of observations, field screening results and analytical results for each AOC follows:

AOC 1—Wastewater Disposal Systems (Drains & Sewer)

Eight interior soil borings (B1, B2, B8, B9 and B11 through B14) were advanced within the Site building in areas of the building floor drains, wastewater treatment, and/or the sewer system, to address direct discharges to the subsurface (floor drains) and/or leaks from subsurface piping associated with the floor drains, wastewater treatment system, or sewer system. All eight interior borings were advanced through the poured concrete slab flooring, which was approximately five inches thick. Soils encountered beneath the concrete slab generally consisted of fine to medium sands, with little to some gravel, with the presence of cobbles increasing with depth. Possible bedrock refusal was encountered, but could not be confirmed, in three of the interior borings (B8, B9 and B11) at depths of 3 to 5 feet bgs; these borings were all located in the northerly portion of the Site building. Two additional interior borings in the AOC (B2 and B13) encountered refusals, at depths of 9.5 and 12.5 feet bgs, respectively, with indications of cobbles, but no obvious indications of bedrock. The three remaining borings were advanced to depths ranging from 6 to 10 feet bgs, with no refusal encountered. Groundwater was encountered in three of the eight interior borings for this AOC, at depths ranging from 8 to 10 feet below grade.

In addition, two exterior soil borings (B3 and B15) were advanced to the southeast of the Site building, in the area of several exterior sewer manholes; these borings were advanced to depths of 12 and 10 feet bgs, respectively, with no refusal; boring B3 was completed as groundwater monitoring well MW103. Soils encountered generally consisted of fine to medium sands with little gravel and trace silt. Groundwater was encountered at approximately 7 feet below grade in each boring.

Elevated PICs (12 to125 ppmv) were detected in the soils from interior borings B12 and B14. Odors were noted in the soils from boring B12 where a 3-inch lens of black soil was noted at a depth of approximately 2.5 feet below grade. Neither odors nor staining was noted in the soils from B14; however, PICs ranged from 46 to 124 ppmv. Elevated PICs were not detected in the remaining interior or exterior soil borings within the AOC.

XRF measurements taken at 2.5-foot sample intervals over the depth of the borings indicated metals concentrations above SRSs in soil samples from borings B1, B2, B3, B9, B11, B12, and B13; including arsenic (B1, B9, B11, and B12), cadmium (B2), mercury (B3 and B13), and zinc (B2). XRF measurements did not detect metals at concentrations above SRS in soils from borings B8, B14, and B15. XRF screening data was utilized in selecting laboratory samples for metals analysis. XRF data is detailed in Table 1.

Laboratory results for soil samples from soil boring B3 and B12 documented PAHs at concentrations exceeding their respective SRSs. Benzo(a)pyrene was detected in soil sample B12-S2 at a concentration

exceeding the RCMP Method 1 NH S-3 standard. Other PAHs were also detected in these soil samples; however, at concentrations below SRSs. No PAHs were detected above laboratory detection limits in the other soil samples analyzed for PAHs from borings B1, B9, B13, B14 and B15.

VOCs were detected in the soil borings analyzed for VOCs from borings B3, B12, B13 and B14; however, at concentrations below SRSs. No VOCs were detected above laboratory detection limits in the other soil samples analyzed for VOCs from borings B1 and B9.

No cyanide was detected above laboratory detection limits in the eleven soil samples analyzed for cyanide from borings B1, B2, B3, B9 and B12 through B15.

TPH-DRO was detected in the soil samples analyzed from borings B1, B3, B12 and B14; however, at concentrations below the SRS. The highest concentration of TPH-DRO was detected in the sample from B12 at 4,530 mg/kg, roughly half of the SRS. TPH-DRO was not detected above laboratory detection limits in the other four soil samples analyzed for TPH-DRO; from borings B2, B9, B13 and B15.

Laboratory results for these soil samples documented cadmium in the soil from B2 at a concentration (253 milligrams per kilogram (mg/kg)) above its SRS (33 mg/kg). Other metals were also detected in this soil sample; however, at concentrations below SRSs. Metals were also detected in the soil samples from soil borings B1, B3, B9, and B12 through B15; however, at concentrations below SRSs.

AOC 2—Former Plating Area

Boring B2 (also discussed for AOC 1, above) was advanced in the center of the former plating room, and borings B16 through B19 were advanced in production areas in proximity to the plating room. Soils encountered were generally consistent with the soils in AOC 1 with weathered rock encountered at a depth of 9.5 feet in boring B18. The other borings reached depths ranging from 8 to 10 feet bgs without refusal. Groundwater was encountered in each of these borings at depths ranging from 6 to 8 feet bgs.

Elevated PICs were measured in soil samples from B2, ranging from 12 to 171 ppmv; B2 was completed as groundwater monitoring well MW102. Elevated PICs (above 1 ppmv) were not encountered in soil samples from B16 through B19, the other borings within this AOC.

XRF measurements taken at 2.5-foot sample intervals over the depth of the borings indicated metals concentrations above SRSs in soil samples from borings B2, B16, and B18; including arsenic (B2, B16, and B18), cadmium (B2), and zinc (B2). XRF measurements did not detect metals at concentrations above SRS in soils from borings B17 and B19. XRF screening data was utilized in selecting laboratory samples for metals analysis. XRF data is detailed in Table 1.

Two soil samples were selected for laboratory analyses from boring B2. Sample S3, collected from 5 to 7.5 feet below grade, was selected for metals analyses. Laboratory results for this soil sample documented cadmium at a concentration (253 mg/kg) above its SRS (33 mg/kg) for sample B2-S3. Other metals were also detected in this soil sample; however, at concentrations below SRSs.

Sample S4, collected from 7.5 to 8.5 feet below grade, was also selected for laboratory analyses. With the exception of acetone (likely a laboratory contaminant) detected in soil sample B2-S4, no VOCs were detected above laboratory detection limits. No PAHs, cyanide or TPH-DRO were detected in soil sample B2 above laboratory detection limits.

For the soil borings B16 through B19, one soil sample was selected from each boring for laboratory analyses for VOCs, total cyanide, and the 13 primary pollutant metals. Sample B16-S4 was collected from 7.5 to 10 feet below grade, samples B17-S3 and B18-S3 were collected from 5.0 to 7.5 feet below grade, and sample B19-S2 was collected from 2.5 to 5.0 feet below grade.

With the exception of arsenic detected in soil sample B18-S3 at a concentration of 20 mg/kg, above the SRS (11 mg/kg), metals were not detected in these soil samples at concentrations above the applicable SRS. No VOCs were detected above SRSs in the soil samples submitted. Total cyanide was not detected at concentrations above the laboratory detection limits in the soil samples submitted from these borings.

AOC 3—Former Fuel Oil UST Area

Borings B4, B20 and B21 were advanced in the Site building in the inferred area of a former fuel oil UST. In general, soils encountered consisted of fine to medium sands, with little gravel, trace to little silt, and cobbles increasing with depth. Refusal was encountered in borings B4 and B20 at depths of 8 and 6.5 feet respectively. Boring B21 was advanced to a depth of 10 feet below grade and finished as groundwater monitoring well MW104.

Elevated PICs (13 to 21 ppmv) were detected in the soil from borings B4 and B21. Elevated PICs were not encountered in boring B20.

Laboratory results for soil sample B21-S4 documented concentrations of the VOCs benzene (estimated at 0.004 mg/kg) and acetone (estimated at 0.00036 mg/kg) below the SRS for each compound (0.3 and 75 mg/kg, respectively). No other VOCs, or PAHs and TPH-DRO, were detected above laboratory detection limits in this soil sample.

No VOCS, PAHs or TPH-DRO were detected above laboratory detection limits in soil sample B4-S3. No soil samples were collected from B20 for laboratory analyses.

AOC 4—Inactive Fuel Oil AST Area

Borings B5 and B22 were advanced adjacent to the inactive fuel oil AST, between the AST building and the former boiler room. Boring B5 was advanced to refusal at a depth of 12.5 feet below grade, encountering fine to medium sands, with silt, gravel, and cobbles increasing with depth. A 6-inch lens of black stained soils was encountered at a depth of approximately 6.5 feet below grade. Boring B22 was advanced to a total depth of five feet below grade, with soils encountered consisting of fine to medium sands with increasing silt content. No staining was observed. Groundwater was encountered in each of these borings at a depth of approximately three feet below grade. Boring B5 was completed as groundwater monitoring well MW105.

Slightly elevated PICs (2 ppmv) were detected in the soil from boring B5, at a depth consistent with the dark/stained soils observed. Elevated PICs were not detected in the remaining soil samples from B5 or the soil samples from B22.

Laboratory results for soil samples from soil boring B5 and B22 documented PAHs at concentrations exceeding their respective SRSs. Other PAHs were also detected in these soil samples; however, at concentrations below SRSs.

Laboratory results for soil sample B5 documented the VOC methylene chloride (likely a laboratory contaminant, estimated at 0.14 mg/kg) at a concentration slightly above its SRS (0.1 mg/kg). Other VOCs were detected in this sample, as well as B5; however, at concentrations below SRSs. The PAH benzo(a)pyrene was detected in soil samples B5-S3 and B22-S2 at concentrations of 3.6 and 0.79 mg/kg, respectively, above the SRS for this compound (0.7 mg/kg). Additional PAHs were detected in the soil sample from B5 at concentrations above the applicable SRSs, including benzo(a)anthracene (4.8 mg/kg), benzo(b)fluoranthene (4.4 mg/kg), and indeno(1,2,3-cd)pyrene (2.3 mg/kg). Additional PAHs were detected in the soil samples from B5 and B22 at concentrations below SRS. TPH-DRO was detected in the soil samples from B5 and B22; however, at concentrations below the SRS.

AOC 5—Facility Loading/Unloading Areas

Boring B6 was advanced in the area of western loading docks, boring B26 was advanced in the area of the southern loading dock, and borings B23 through B25 were advanced in the area of loadings docks facing the former rail-road siding along the northern side of the Site building.

Boring B6 was advanced to a depth of 10 feet below grade with no stained soils observed; groundwater was encountered at approximately 2 feet below grade, and this boring was finished as groundwater monitoring well MW106.

Boring B26 was advanced to a depth of 10 feet below grade, with stained soils exhibiting an odor encountered from approximately 4 to 6 feet below grade; groundwater was encountered at approximately 4.5 feet below grade. Given the stained soils and odors observed, this boring was completed as an additional groundwater monitoring well, identified as MW108.

Although odors were noted, only slightly elevated PICs (2 ppmv) were detected in the soil from boring B26, at a depth consistent with the dark/stained soils observed. Elevated PICs were not detected in the remaining soil samples from B26 or the soil samples from B6.

XRF measurements taken at 2.5-foot sample intervals over the depth of borings B6 and B26 indicated elevated arsenic concentrations above SRS. XRF measurements did not indicate additional metals concentrations above SRSs in soil samples from these borings. XRF screening data was utilized in selecting laboratory samples for metals analysis. XRF data is detailed in Table 1.

Borings B23, B24 and B25 were advanced along the northern side of the Site building in potential loading/unloading areas associated with the former rail road corridor to the north of the Site. Due to access issues, these borings were advanced using hand tools, with hand-tool refusal encountered at approximately 1.5 feet below grade. Soils encountered in each of these of borings were observed to be fine to coarse sands with little to some gravel; apparent coal slag was a major competent within all three of these borings at depths below top soil.

Elevated PICs were not detected in any of the soil samples from these hand borings.

Laboratory results for the soil sample B6 documented the VOCs methylene chloride (estimated at 0.0023 mg/kg) and acetone (0.055 mg/kg), both possible laboratory contaminants, at concentrations below their SRSs. No other VOCs were detected in B6 above laboratory detection limits. VOCs (including naphthalene at 24 mg/kg) were detected in soil sample B26 at concentrations below SRSs. No soil samples were collected from B23, B24 and B25 for VOC laboratory analyses.

Laboratory results for soil samples from soil boring B23, B24, B25 and B26 documented the PAHs benzo(a)anthracene, benzo(a) pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene, all at concentrations exceeding their respective SRSs. In addition, the PAH dibenzo(a,h)anthracene was detected in boring B25 above the applicable SRS. Note, benzo(a)pyrene was also detected in soil sample B25 at a concentration exceeding the RCMP Method 1 NH S-3 standard. Carbon residuals were noted in the soil for soil borings B23, B24 and B25.

Additional PAHs were detected in borings B23 through B26; however, at concentrations below the applicable SRSs. PAHs were also detected in soil sample B6; however, at concentrations below SRSs.

Metals and TPH-DRO were detected in borings B6 and B23 through B26; however, at concentrations below SRSs.

AOC 6—Off-site Sources

Boring B7 was advanced near the southern Site boundary in an inferred downgradient location relative to an abutting auto repair garage, Finish Line Auto Collision Repair, located on the opposite side of Webster Street. Elevated PICs were not measured in the soil samples from B7, nor were petroleum odors noted. Boring B7 was advanced to refusal at a depth of 14 feet below grade. Consistent with most borings on the Site, soils encountered generally consisted of fine to medium sands with little gravel, trace to little silt, and increasing cobbles with depth. Boring B7 was finished as groundwater monitoring well MW107.

No soil samples were selected for laboratory analyses from this boring.

3.3 Concrete Dust

Concrete dust samples (CS-1, CS-2, CS-8, CS-9 and C-16 through C-19) were collected for laboratory analyses from eight of the borings (B1, B2, B8, B9 and B16 through B19, respectively) from the top ½ inch of concrete at each boring. Analytical results of concrete dust samples are presented in the attached Table 3.

Metals were detected in eight concrete dust samples (CS-1, CS-2, CS-8, CS-9 and C-16 through C-19) at concentrations below SRSs.

PCBs were detected in concrete dust sample CS-9 at a concentration (0.136 mg/kg) below its SRS (1 mg/kg).

No PCBs were detected at concentrations above laboratory detection limits in concrete dust samples CS-1, CS-2 and CS-8. No samples collected from CS-16 through C-19 were submitted for PCB analysis.

3.4 Groundwater

Groundwater samples were collected from the ten monitoring wells installed as part of this investigation (MW101 through MW108).

Monitoring well locations and groundwater detections exceeding AGQSs are shown on the attached Figure 6. Groundwater field parameter results are shown in Table 4. Groundwater analytical results are summarized in Table 5.

A summary of the analytical results for each AOC is as follows:

AOC 1—Wastewater Disposal Systems (Drains & Sewer)

To assess for potential impacts to groundwater quality due to past discharges associated with wastewater disposal systems, groundwater quality was evaluated by collecting groundwater samples from monitoring well MW101 installed in the building drains area and monitoring well MW103 installed inferred downgradient of the exterior manhole drains area.

The groundwater samples were analyzed for the presence of dissolved (field-filtered) metals and PAHs, VOCs, PFAS (MW103 only), cyanide and sulfate.

None of the noted COCs were detected in the groundwater samples collected from monitoring wells MW101 and MW103 at concentrations above AGQSs.

AOC 2—Former Plating Area

To assess for potential impacts to groundwater quality due to past discharges associated with the former plating area, groundwater quality was evaluated by collecting groundwater samples from monitoring well MW102 installed in the building plating room area.

The groundwater samples were analyzed for the presence of dissolved (field-filtered) metals and PAHs, VOCs, PFAS, cyanide and sulfate.

As summarized in Table 5, concentrations above AGQSs for COCs associated with the Former Plating Area were noted at monitoring well MW102:

1. Tetrachloroethene (PCE) at 5.8 µg/L (above the AGQS of 5 µg/L); and

2. Cyanide at 512 µg/L (above the AGQS of 200 µg/L).

No other VOCS or the other COCs (dissolved PAHS and metals, PFAS and sulfate) were detected in the groundwater samples collected from monitoring well MW102 at concentrations above AGQSs.

AOC 3—Former Fuel Oil UST Area

To assess for potential impacts to groundwater quality due to past discharges associated with the former fuel oil UST, groundwater quality was evaluated by collecting groundwater samples from monitoring well MW104 installed in the former fuel oil UST area.

The groundwater samples were analyzed for the presence of dissolved (field-filtered) metals and PAHs, VOCs, cyanide and sulfate.

As summarized in Table 5, concentrations above AGQSs for COCs in the Former Fuel Oil UST Area were noted at monitoring well MW104:

1. PCE at 8.6 µg/L (above the AGQS of 5 µg/L).

The PCE is unlikely to be associated with the former petroleum UST. No other VOCS or the other COCs (dissolved PAHs and metals, and sulfate) were detected in the groundwater samples collected from monitoring well MW104 at concentrations above AGQSs.

AOC 4—Inactive Fuel Oil AST Area

To assess for potential impacts to groundwater quality due to past discharges associated with the inactive fuel oil AST, groundwater quality was evaluated by collecting groundwater samples from monitoring well MW105, installed adjacent to and inferred downgradient of the inactive fuel oil AST.

The groundwater samples were analyzed for the presence of VOCs and dissolved (field-filtered) PAHs.

No VOCS or dissolved PAHs were detected in the groundwater samples collected from monitoring well MW105 at concentrations above AGQSs. Naphthalene was detected at a concentration of 30 µg/L, below the current revised standard of 100 µg/L.

AOC 5—Facility Loading/Unloading Areas

To assess for potential impacts to groundwater quality due to past discharges associated with the facility loading/unloading areas, groundwater quality was evaluated by collecting groundwater samples from monitoring wells MW106 and MW108, installed adjacent to the northwest loading area and the south loading area, respectively.

The groundwater samples were analyzed for the presence of dissolved (field-filtered) metals and PAHs, VOCs, cyanide and sulfate.

With the exception of naphthalene (180 µg/L) detected in the groundwater sample collected from monitoring well MW108 at a concentration exceeding is AGQS 100 µg/L, none of the COCs (dissolved PAHs and metals, VOCs, cyanide and sulfate) were detected in the groundwater samples collected from monitoring wells MW106 and MW108 at concentrations above AGQSs.

AOC 6—Off-site Sources

To assess for potential impacts to groundwater quality due to past discharges associated with potential off-site sources, groundwater quality was evaluated by collecting groundwater samples from monitoring well MW107, installed along the southern property boundary.

The groundwater samples were analyzed for the presence of VOCs and dissolved (field-filtered) PAHs and metals.

No VOCS or dissolved PAHs and metals were detected in the groundwater samples collected from monitoring well MW107 at concentrations above AGQSs.

MW106, for which results are reported under AOC 5, also documents no impacts to groundwater in that specific area from potential off-site sources to the north and west.

4.0 QUALITY ANALYSIS/QUALITY CONTROL

The contracted laboratory, Alpha, provided Level II analytical data according to U.S. EPA protocols and U.S. EPA laboratory data validation guidance as required by Ransom's SSQAPP for Tier I Plus data review. Alpha provided the following information in analytical reports:

1. Data results sheets;
2. Method blank results;
3. Surrogate recoveries and acceptance limits;
4. Duplicate results/acceptance limits;
5. Spike/duplicate results/acceptance limits;
6. Laboratory control sample results;
7. Description of analytical methods and results; and
8. Other pertinent results/limits as deemed appropriate.

As outlined in the SSQAPP, at the completion of the field tasks and subsequent to receipt of the analytical results, a data usability analysis was conducted to document the precision, bias, accuracy, representativeness, comparability, and completeness of the results. The following sections present this analysis. A summary of duplicate sample analytical results is included in Table 6 (for soil), Table 7 (for concrete) and Table 8 (for groundwater).

4.1 Precision

Precision measures the reproducibility of measurements. The precision measurement is established using the relative percent difference (RPD) between the duplicate sample results. Relative percent differences were calculated for samples where both sample and duplicate values were greater than five times the Practical Quantitation Limit (PQL) of the analyte. The RPD is calculated as follows:

$$RPD = \frac{\text{(Sample Result - Duplicate Result)}}{\text{Mean of the Two Results}} \times 100$$

Precision of the sampling and analytical results is considered acceptable if the RPDs are less than or equal to 50% for soil samples or 30% for aqueous samples. Duplicate soil samples were collected from soil boring B2-S3 (13 Priority Pollutant Metals), B2-S4 (analyzed for VOCs), B18-S3 (cyanide) and B26-S3 (PAHs and TPH-DRO). One duplicate concrete sample was collected from concrete boring CS-1 (13 Priority Pollutant Metals and PCBs). Duplicate groundwater samples were collected from monitoring wells MW103 (PFAS) and MW108 (VOCs, PAHs, cyanide, sulfate and 13 Priority Pollutant Metals). Duplicate soil, concrete and groundwater samples are detailed in Table 6, Table 7 and Table 8, respectively.

Soil

B2-S3/S3 / DUPLICATE

Arsenic, beryllium, cadmium, total chromium, copper, lead, nickel and zinc were detected at concentrations greater than five times the respective PQLs of the analytes. The RPD for these metals ranged from 1% to 46%; therefore, the precision of the sample results is acceptable because the RPD is below 50%.

B2-S4 / DUPLICATE

VOCs were not detected at concentrations above five times the PQL; therefore, no RPD calculation and assessment was applicable for this analysis.

B18-S3 / DUPLICATE

Total cyanide was not detected at concentrations above five times the PQLs; therefore, no RPD calculation and assessment was applicable for this analysis.

B26-S3 / DUPLICATES

1. With the exception of 2-chloronaphthalene, all PAH compounds were detected above five times the respective PQL of the compounds. The RPDs for these compounds ranged from 42% to 68%; with the sample results acceptable because the RPD is below 50% for the PAH compounds benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, and dibenzo(a,h)anthracene. The RPD for the remaining PAHs ranged from 51% to 68%; therefore, the precision of the sample results for these compounds is not acceptable because the RPD is above 50%. The concentrations of PAHs detected in this sample pair were relatively high and any discrepancies are not anticipated to impact whether the sample result exceeded the RCMP Method I NH S-3 soil standards. Because the sample having the lowest concentrations exceeded a S-3 standard, the conclusions of the report and the usability of the data is not anticipated to be affected in this instance.

2. TPH-DRO was detected at concentration greater than five times the PQL. The RPD for TPH-DRO is 100%; therefore, the precision of the sample results is not acceptable because the RPD is above 50%. The reported TPH-DRO concentrations are well below the SRS standard for this analyte, therefore an inaccuracy, particularly one that is biased high, as in this case, is not anticipated to affect the conclusions of the report.

Concrete

CS-1 (B1) / DUPLICATES

1. Arsenic, total chromium, copper, nickel, and zinc were detected at concentrations greater than five times the respective PQLs of the analytes. The RPD for these metals ranged from 1% to 5%; therefore, the precision of the sample results is acceptable because the RPD is below 50%.

2. PCBs were not detected at concentrations above laboratory reporting limits; therefore, no RPD calculation and assessment was applicable for this analysis.

Groundwater

MW103 / DUPLICATE

PFAS was not detected at concentrations above five times the respective PQLs in only one PFAS analyte. For that analyte, perfluorobutanoic acid (PFBA), the RPD was 3%. Therefore, the precision of the sample result is acceptable because the RPD is below 30%.

MW108 / DUPLICATES

1. The VOC naphthalene was detected at a concentration greater than five times the respective PQL of the analyte. The RPD for naphthalene was 0%; therefore, the precision of the sample results is acceptable because the RPD is below 30%. Remaining VOCs were not detected at concentrations above five times the PQL; therefore, no RPD calculation and assessment was applicable for these VOC compounds.

2. Nine PAH compounds were detected at concentrations above five times the respective PQLs. The RPDs for these compounds ranged from 0% to 150%. The RPD for two PAHs, 1-methylnaphthalene and 2-methylnapthalene, were 51% and 150%, respectively; therefore, the precision of the sample results for these compounds is not acceptable because the RPD is above 30%. The RPD for the seven remaining PAHs ranged from 0% to 30%; therefore, the sample results for these compounds are acceptable because the RPD is at or below 30%. This data would suggest overall acceptable precision; however, some significant inaccuracy was documented for two analytes. Because no PAHs were detected at concentrations approaching AGQS for those analytes with questionable precision, this result is not anticipated to affect data usability or report conclusions.

3. Total cyanide was not detected at concentrations above five times the PQL; therefore, no RPD calculation and assessment was applicable for this analysis.

4. Dissolved metals were not detected at concentrations above five times the PQLs; therefore, no RPD calculation and assessment was applicable for this analysis.

Bias

Bias is the systematic or persistent distortion of a measurement process that causes errors in one direction. Bias assessments are made using personnel, equipment, and spiking materials or reference materials as independent as possible from those used in the calibration of the measurement system. Bias assessments were based on the analysis of spiked samples so that the effect of the matrix on recovery is incorporated into the assessment. A documented spiking protocol and consistency in following that protocol are important to obtaining meaningful data quality estimates.

Matrix spike and matrix spike duplicate samples (MS/MSD) were used to assess bias as prescribed in the specified methods. Unless specified in the notes below for each analytic method and media, acceptable recovery values were within the recoveries specified by each of the analysis methods. Laboratory control

samples for assessing bias were analyzed at a rate as specified in the analytical SOPs and specified analytical methods.

The lab provides quality control non-conformance reports that indicate if Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD) and/or MS/MSD had low, failing, or high recoveries and if the sample result was affected. Likewise, the lab reports any compounds that had failing RPDs in the LCS/LCSD pair or the MS/MSD pair. This indicates the percent difference between the lab sample and its duplicate or the spike and its' duplicate. Specific comments from the laboratory and LCS/LCSD results meriting discussion are provided below for each analytical method and media.

4.1.1 Volatile Organic Compounds

Soil

L1832546-02 (sample B3-S3): The surrogate recovery for 1,2-dichloroethane-d4 (131%) is outside the acceptance criteria; however, since the sample was non-detect for all target analytes associated with the surrogate, re-analysis was not required.

L1832546-04 (sample B6-S1): The surrogate recovery for 1,2-dichloroethane-d4 (138%) is outside the acceptance criteria; however, since the sample was non-detect for all target analytes associated with the surrogate, re-analysis was not required.

L1832546-08 (sample B22-S2): The surrogate recovery for 1,2-dichloroethane-d4 (137%) is outside the acceptance criteria; however, since the sample was non-detect for all target analytes associated with the surrogate, re-analysis was not required.

L1832546-18 (trip blank): No Low Level vial was submitted for the trip blank. Only high level was analyzed and reported. Because the detection limits were under the SRSs for the VOC analytes the sample analyses effectively screened for contaminant levels that would affect results interpretation.

L1832546-20 (sample B12-S4): The surrogate recovery for 1,2-dichloroethane-d4 (139%)is outside the acceptance criteria; however, since the sample was non-detect for all target analytes associated with the surrogate, re-analysis was not required.

4.1.2 Total/Dissolved Metals

Concrete

The WG1150965-3 MS recoveries, performed on L1832241-14 (sample CS-1), are outside the acceptance criteria for antimony (74%), cadmium (64%), chromium (74%), lead (71%) and nickel (68%). A post digestion spike was performed and was within acceptance criteria.

The WG1150965-3 MS recovery performed on L1832241-14 (sample CS-1) is outside the acceptance criteria for thallium (68%). A post digestion spike was performed and yielded an unacceptable recovery for thallium (78%). The serial dilution recovery was not acceptable; therefore, this element fails the matrix test and the results reported in the native sample should be considered estimated. No thallium was detected in this sample; therefore, a deviation in accuracy if not likely to affect the use of the data in this instance.

Soil

The WG1159767-3 MS recovery, performed on L1836586-01 (sample B-23), is outside the acceptance criteria for thallium (73%). A post digestion spike was performed and was within acceptance criteria.

The WG1159767-3 MS recovery for zinc (153%), performed on L1836586-01 (sample B-23), does not apply because the sample concentration is greater than four times the spike amount added.

4.1.3 Cyanide

Soil

The WG1149319-2/-3 LCS/LCSD recoveries (69%/75%), associated with L1832546-01, -02, and -05 (samples B2-S4, B3-S3 and B12-S2, respectively), are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Groundwater

The WG1155282-4/-5 MS/MSD RPD (21%), performed on L1835394 is above the acceptance criteria. -Although slightly above the RPD acceptance criteria (20%) for total cyanide, this relatively small bias should not have a substantive outcome on Ransom's interpretations of the groundwater results as the AGQS violation was 2.5x the AGQS standard.

4.2 Accuracy

Accuracy is a statistical measurement of correctness and includes components of random error (variability due to imprecision) and systemic error. It therefore reflects the total error associated with a measurement. A measurement is accurate when the value reported does not differ from the true value or known concentration of the spike or standard. For VOCs, surrogate compound recoveries are also used to assess accuracy and method performance for each sample analyzed. Analysis of performance evaluation samples will also be used to provide additional information for assessing the accuracy of the analytical data being produced. Both accuracy and precision are calculated for each analytical batch, and the associated sample results are interpreted by considering these specific measurements.

The laboratory provides a non-conformance summary that reports if all of the quality control criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for analysis were within acceptable limits. According to the laboratory, unless noted in the non-conformance summary, all of the quality control criteria for these analyses were within acceptable limits.

No VOC trip blank accompanied the September 9, 2018 sampling event due to an oversight by the laboratory, not identified by Ransom. No broadly detected analytes were identified that are likely to be contaminants inadvertently introduced during sample transportation. Therefore, the absence of this control sample is not anticipated to comprise the usability of the data in this instance.

Estimated concentrations are reported with a "J" flag designation by the laboratory for analytes that are detected at concentrations below the PQL (also called the Reporting Limit) but above the method detection limit. J flagged results are noted in the summary tables of this Phase II ESA as well as in the laboratory reports.

4.3 Representativeness

Objectives for representativeness are defined for each sampling and analysis task and are a function of the investigative objectives. Representativeness was accomplished during this project through use of standard field, sampling, and analytical procedures.

4.4 Comparability

Comparability is the confidence with which one data set can be compared to another data set. The objective for this quality assurance/quality control (QA/QC) program is to produce data with the greatest possible degree of comparability. Comparability was achieved by using standard methods for sampling and analysis, reporting data in standard units, normalizing results to standard conditions and using standard and comprehensive reporting formats. Complete field documentation was used, including standardized data collection forms to support the assessment of comparability. Historical comparability shall be achieved through consistent use of methods and documentation procedures throughout the project.

4.5 Completeness

Completeness is calculated by comparing the number of samples successfully analyzed to the number of samples collected. The goal for completeness is 95 percent. The completeness for this project was 100 percent, as there were no samples that could not be analyzed due to holding time violations, samples spilled or broken, or any other reason.

4.6 Project Quantitation Limits

Project specific PQLs were developed for the SSQAPP to ensure analytical results would meet relevant applicable standards. In several soil samples, analyte PQLs did exceed the applicable standards, usually due to sample dilution for elevated concentrations of non-target compounds or matrix interferences encountered during analyses, as noted below.

Concrete

For concrete samples L1832241-15, -16 and -18 (samples CS-9, CS-16 and CS-18) the samples had elevated detection limits for cadmium due to the dilution required by matrix interferences encountered during analysis. The PQLs are at least a factor of 10 below the SRS for cadmium, therefore there is no adverse effect on use of the data.

5.0 CONCLUSIONS

Based on the information collected as part of this assessment RECs identified in the Phase I ESA were confirmed, discounted or undetermined as follows:

1. Non-compliant 20,000-gallon No. 6 oil AST: Confirmed. The PAHs documented in soil at B5 and B22 may be indicative of a release of No. 6 oil in that area adjoining the inactive fuel oil AST. The soils are in a paved area and do not present an immediate human risk exposure. Although there were no exceedances of AGQSs, VOCs including naphthalene (30 µg/L) were detected in the groundwater sample collected from the monitoring well (MW105) installed in this area.

2. Historic oil UST (size unknown) located south of the central portion of the Site building: Discounted (for petroleum). Evidence of a petroleum release was identified; however, no violations of soil or groundwater standards were documented.

3. Floor drains and sumps that historically received process derived wastewater: Confirmed. Cadmium in soil at boring B2 and cyanide in groundwater at MW102 (installed in B2) are likely associated with a release of wastewaters or plating solutions in the former industrial wastewater/plating area. The sample soils are beneath a concrete slab and do not present an immediate human exposure risk. PCE impacts in the area of MW102 and MW104 (above AGQS) could also be related to an on-Site release or, alternatively to the remnants of a plume from a neighboring off-Site source.

4. Contaminated groundwater (cyanide and PCE exceeding AGQSs) in monitoring wells located on the eastern portion of the Site that could indicate the potential for unassessed or unidentified source areas, including areas on the western portion of the Site: Confirmed. Cyanide was detected in groundwater above AGQS in the wastewater/plating area. As noted above, PCE impacts in the area of MW102 and MW104 (above AGQS) could be related to an on-Site release or, alternatively to the remnants of a plume from a neighboring off-Site source.

5. A neighboring former dry-cleaning facility has adversely impacted groundwater on numerous parcels in the vicinity of the Site; the contaminated groundwater plume may extend onto the Site: Undetermined. Additional investigations within and north of the Site building need to be conducted to determine if PCE is migrating onto the northern portion of the Site.

In assessing the other identified AOCs, Ransom concludes the following:

1. The source of the PAHs in the area of boring B3 from 5 to 8 feet bgs (above the groundwater table) is unclear but may be related to backfilled soil near sewer infrastructures or another unknown source.

2. The PAHs in soil at boring B12 and B25 that exceed SRSs and exceed the RCMP Method 1 NH S-3 standard for benzo(a)pyrene, as well as naphthalene in groundwater at MW 108, are likely associated with a release (or releases) of a petroleum or petroleum-like product. The source of an exceedance of arsenic in soil at nearby B18 is unclear; however, no staining similar to that noted at B12 and B25 was observed in soil from this

boring. The impacts to soils were documented beneath pavement or concrete and do not present an immediate human exposure risk.

3. The PAHs in soil samples collected from adjacent to a railroad corridor are inferred to constitute a background condition per Env-Or 600 (presence of coal combustion residuals in urban fill).

6.0 RECOMMENDATIONS

Based on the data collected during this investigation, additional investigation is warranted. Ransom recommends additional assessment to further delineate the extent of:

1. Cadmium, cyanide and PCE impacts to soils and/or groundwater in proximity to the former plating and wastewater treatment areas near MW102/B2;

2. PCE impacts to groundwater as was documented in the sample collected from monitoring well MW104 (in conjunction with MW102 area investigations); and

3. PAH impacts to soil broadly in the area of B12 and B26, and naphthalene impacts to groundwater as was documented in the sample collected from exterior monitoring well MW108.

Contaminant levels detected in soils in some locations on Site (i.e. the railroad corridor) are consistent with background conditions or in most locations assessed do not rise to the level requiring remedial action and could likely be managed in place. However, soils with relatively low-level and mid-level contaminants would/could be subject to regulation and re-use restrictions if excavated and relocated on Site and/or removed from the property.

7.0 REFERENCES

1. Ransom Consulting, Inc., November 2017; Phase I Environmental Site Assessment, 39 Webster Street, Jaffrey, New Hampshire.

2. NH DES Env-Or 600 Soil Remediation Standards and Ambient Groundwater Quality Standards, Revised September 1, 2018.

3. NH DES Risk Characterization and Management Policy, Method 1 Soil Standards, Updated February 2013.

4. U.S. EPA; November 2018; Maximum Contaminant Levels.

5. U.S. EPA; November 2018; Regional Screening Levels.

6. NH DES OneStop Database.

7. Ransom Consulting, Inc.; dated August 3 (fully executed August 9), 2018; Site-Specific Quality Assurance Project Plan –Phase II Environmental Site Assessment, W. W. Cross Site, Jaffrey, New Hampshire; RFA #17091, Addendum No. 7, Rev. 1 to the State of New Hampshire Brownfields Assessment Projects Generic Quality Assurance Project Plan.

8.0 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

Ransom performed services in a manner consistent with the guidelines set forth in the ASTM International E 1903-97, and in accordance with the scope of work and standard operating procedures outlined in the Generic QAPP and SSQAPP.

The following Ransom personnel possess the sufficient training and experience necessary to conduct a Phase II ESA, and from the information generated by such activities, have the ability to develop opinions and conclusions regarding recognized environmental conditions in connection with the Site.

Environmental Professionals:

_____

Bonnie Best
Environmental Scientist

_____

John M. Ouellette
Project Manager

_____

Stephen Dyer, P.E.
Senior Engineer/Program Manager

_____

Steven Rickerich, P.G.
Senior Geologist/ QA/QC Manager /Principal-in-Charge

TABLE 1. SOIL SAMPLE XRF FIELD SCREENING RESULTS
W.W. Cross Property
39 Webster Street
Jaffrey, New Hampshire

Date	Boring	Sample	Depth	As (Arsenic)	As +/-	Cd (Cadmium)	Cd +/-	Cr (Chromium)	Cr +/-	Cu (Copper)	Cu +/-	Pb (Lead)	Pb +/-	Hg (Mercury)	Hg +/-	Ni (Nickel)	Ni +/-	Se (Selenium)	Se +/-	Ag (Silver)	Ag +/-	Zn (Zinc)	Zn +/-	Sb (Antimony)	Sb +/-
NH DES Env-Or 600 Soil Remediation Standard (SRS)				11		33		130/1,000		NS		400		7		400		180		89		1,000		9	
8/27/2018	B1	S1	0.0-2.5	<LOD	11	<LOD	48	<LOD	123	<LOD	21	22	4	<LOD	8	<LOD	43	<LOD	3	<LOD	36	44	5	<LOD	87
		S2	***2.5-5.0***	***<LOD***	***11***	***<LOD***	***46***	***<LOD***	***102***	***<LOD***	***20***	***20***	***3***	***<LOD***	***9***	***<LOD***	***40***	***<LOD***	***3***	***<LOD***	***35***	***30***	***4***	***<LOD***	***84***
		S3	5.0-7.5	13	4	<LOD	46	<LOD	106	<LOD	21	15	3	<LOD	9	<LOD	41	4	1	<LOD	34	24	4	<LOD	83
		S4	7.5-10.0	12	3	<LOD	45	<LOD	112	<LOD	20	11	3	<LOD	8	<LOD	42	<LOD	3	<LOD	34	36	4	<LOD	82
8/27/2018	B2	S1	0.0-2.5	<LOD	13	80	19	<LOD	117	484	19	22	4	<LOD	12	<LOD	54	<LOD	4	<LOD	42	1405	29	<LOD	100
		S2	2.5-5.0	<LOD	12	328	20	<LOD	129	146	12	14	4	<LOD	11	<LOD	49	<LOD	4	<LOD	40	584	16	<LOD	98
		S3	***5.0-7.5***	***<LOD***	***13***	***410***	***20***	***<LOD***	***132***	***104***	***11***	***28***	***4***	***<LOD***	***11***	***<LOD***	***51***	***<LOD***	***4***	***<LOD***	***41***	***396***	***14***	***<LOD***	***100***
		S4	7.5-9.0	<LOD	14	<LOD	54	<LOD	128	34	9	37	4	<LOD	11	<LOD	49	<LOD	4	<LOD	40	66	6	<LOD	97
8/27/2018	B3	S1	0.0-2.5	<LOD	23	<LOD	61	<LOD	167	460	20	113	7	<LOD	14	<LOD	69	<LOD	5	<LOD	45	405	15	<LOD	108
		S2	***2.5-5.0***	***<LOD***	***20***	***<LOD***	***55***	***<LOD***	***144***	***371***	***17***	***102***	***6***	***15***	***4***	***<LOD***	***57***	***<LOD***	***4***	***<LOD***	***41***	***377***	***13***	***<LOD***	***98***
		S3	5.0-7.5	<LOD	18	<LOD	57	<LOD	145	318	16	68	6	<LOD	11	<LOD	59	<LOD	4	<LOD	41	407	14	<LOD	101
		S4	7.5-10.0	<LOD	14	<LOD	56	<LOD	118	50	9	33	4	<LOD	10	<LOD	47	<LOD	4	<LOD	41	101	7	<LOD	99
8/27/2018	*B6*	***S1***	***0.0-2.5***	***<LOD***	***11***	***<LOD***	***51***	***<LOD***	***113***	***<LOD***	***22***	***18***	***4***	***<LOD***	***8***	***<LOD***	***42***	***<LOD***	***3***	***<LOD***	***38***	***20***	***4***	***<LOD***	***92***
		S2	2.5-5.0	14	4	<LOD	54	<LOD	121	<LOD	23	<LOD	10	<LOD	9	<LOD	46	<LOD	3	<LOD	40	21	4	<LOD	97
		S3	5.0-7.5	<LOD	12	<LOD	54	<LOD	120	<LOD	24	19	4	<LOD	10	<LOD	48	<LOD	4	<LOD	40	31	5	<LOD	98
		S4	7.5-10.0	<LOD	13	<LOD	57	<LOD	154	39	10	16	4	<LOD	11	<LOD	59	<LOD	3	<LOD	42	54	6	<LOD	104
8/27/2018	B8	S1	0.0-3.0	<LOD	13	<LOD	55	<LOD	127	<LOD	24	28	4	<LOD	10	<LOD	51	<LOD	4	<LOD	40	37	5	<LOD	98
8/27/2018	B9	S1	0.0-2.5	<LOD	12	<LOD	54	<LOD	129	<LOD	23	15	4	<LOD	10	<LOD	50	<LOD	4	<LOD	40	24	4	<LOD	96
		S2	***2.5-5.0***	***14***	***4***	***<LOD***	***55***	***<LOD***	***146***	***<LOD***	***25***	***<LOD***	***11***	***<LOD***	***10***	***<LOD***	***54***	***<LOD***	***4***	***<LOD***	***41***	***19***	***4***	***<LOD***	***99***
8/27/2018	B11	S1	0.0-2.5	13	4	<LOD	53	<LOD	127	<LOD	23	<LOD	11	<LOD	10	<LOD	50	<LOD	4	<LOD	40	37	5	<LOD	96
		S2	2.5-5.0	18	4	<LOD	55	<LOD	133	<LOD	25	<LOD	11	<LOD	9	<LOD	48	<LOD	4	<LOD	41	28	5	<LOD	99
8/27/2018	B12	S1	0.0-2.5	<LOD	12	<LOD	53	<LOD	125	<LOD	23	17	4	<LOD	10	<LOD	47	<LOD	3	<LOD	39	25	4	<LOD	96
		S2	***2.5-5.0***	***14***	***5***	***<LOD***	***53***	***<LOD***	***122***	***<LOD***	***23***	***28***	***4***	***<LOD***	***10***	***<LOD***	***48***	***5***	***1***	***<LOD***	***39***	***36***	***5***	***<LOD***	***95***
		S3	5.0-7.5	<LOD	13	<LOD	53	<LOD	138	<LOD	24	23	4	<LOD	10	<LOD	52	<LOD	4	<LOD	40	32	5	<LOD	97
		S4	7.5-10.0	<LOD	14	<LOD	56	<LOD	134	<LOD	24	28	4	<LOD	11	<LOD	53	<LOD	4	<LOD	41	19	4	<LOD	100
8/27/2018	B13	S1	0.0-2.5	<LOD	13	<LOD	55	<LOD	139	<LOD	25	20	4	<LOD	9	<LOD	52	<LOD	4	<LOD	41	33	5	<LOD	99
		S2	2.5-5.0	<LOD	12	<LOD	54	<LOD	124	<LOD	24	16	4	<LOD	11	<LOD	51	<LOD	4	<LOD	40	34	5	<LOD	96
		S3	5.0-7.5	<LOD	13	<LOD	54	<LOD	131	<LOD	24	26	4	<LOD	11	<LOD	49	<LOD	4	<LOD	40	35	5	<LOD	96
		S4	7.5-10.0	<LOD	14	<LOD	57	<LOD	150	<LOD	26	21	4	<LOD	10	<LOD	58	<LOD	4	<LOD	43	57	6	<LOD	103
		S5	***10.0-12.5***	***<LOD***	***13***	***<LOD***	***54***	***<LOD***	***130***	***<LOD***	***25***	***21***	***4***	***12***	***4***	***<LOD***	***54***	***<LOD***	***4***	***<LOD***	***40***	***41***	***5***	***<LOD***	***98***
8/27/2018	B14	S1	0.0-2.0	<LOD	13	<LOD	54	<LOD	122	<LOD	24	28	4	<LOD	9	<LOD	50	<LOD	4	<LOD	40	42	5	<LOD	96
		S2	***2.0-4.0***	***<LOD***	***13***	***<LOD***	***55***	***<LOD***	***153***	***<LOD***	***26***	***20***	***4***	***<LOD***	***10***	***<LOD***	***58***	***<LOD***	***4***	***<LOD***	***41***	***40***	***5***	***<LOD***	***100***
		S3	4.0-6.0	<LOD	12	<LOD	54	<LOD	128	25	8	14	4	<LOD	9	<LOD	46	<LOD	4	<LOD	39	23	4	<LOD	96
8/27/2018	B15	S1	0.0-2.5	<LOD	11	<LOD	54	<LOD	133	<LOD	24	13	4	<LOD	10	<LOD	50	<LOD	4	<LOD	40	19	4	<LOD	97
		S2	2.5-5.0	<LOD	12	<LOD	53	<LOD	118	<LOD	22	17	4	<LOD	10	<LOD	44	<LOD	4	<LOD	40	24	4	<LOD	95
		S3	5.0-7.5	<LOD	11	<LOD	52	<LOD	116	<LOD	22	14	4	<LOD	10	<LOD	46	<LOD	4	<LOD	38	19	4	<LOD	92
		S4	***7.5-10.0***	***<LOD***	***12***	***<LOD***	***59***	***<LOD***	***169***	***<LOD***	***29***	***<LOD***	***12***	***<LOD***	***11***	***<LOD***	***67***	***<LOD***	***4***	***<LOD***	***44***	***21***	***5***	***<LOD***	***107***
8/27/2018	B16	S1	0.0-2.5	<LOD	12	<LOD	54	<LOD	132	<LOD	21	20	4	<LOD	11	<LOD	50	<LOD	4	<LOD	40	28	5	<LOD	96
		S2	2.5-5.0	14	5	<LOD	54	<LOD	132	<LOD	25	28	4	<LOD	8	<LOD	50	<LOD	3	<LOD	41	31	5	<LOD	97
		S3	5.0-7.5	<LOD	12	<LOD	54	<LOD	133	<LOD	24	<LOD	11	<LOD	9	<LOD	48	<LOD	4	<LOD	40	28	5	<LOD	97
		S4	***7.5-10.0***	***<LOD***	***12***	***<LOD***	***53***	***<LOD***	***118***	***<LOD***	***22***	***19***	***4***	***<LOD***	***9***	***<LOD***	***49***	***<LOD***	***4***	***<LOD***	***39***	***20***	***4***	***<LOD***	***95***
8/27/2018	B17	S1	0.0-2.5	<LOD	13	<LOD	56	<LOD	133	<LOD	26	22	4	<LOD	11	<LOD	54	<LOD	4	<LOD	41	39	5	<LOD	100
		S2	2.5-5.0	<LOD	12	<LOD	55	<LOD	115	<LOD	24	24	4	<LOD	10	<LOD	48	<LOD	3	<LOD	41	24	5	<LOD	99
		S3	***5.0-8.0***	***<LOD***	***13***	***<LOD***	***55***	***<LOD***	***129***	***<LOD***	***25***	***19***	***4***	***<LOD***	***9***	***<LOD***	***50***	***<LOD***	***4***	***<LOD***	***40***	***34***	***5***	***<LOD***	***99***
8/27/2018	B18	S1	0.0-2.5	14	4	<LOD	52	<LOD	133	<LOD	23	16	4	<LOD	10	<LOD	49	<LOD	3	<LOD	39	31	5	<LOD	94
		S2	2.5-5.0	<LOD	12	<LOD	53	<LOD	121	<LOD	22	22	4	<LOD	10	<LOD	47	<LOD	3	<LOD	39	16	4	<LOD	95
		S3	***5.0-7.5***	***21***	***5***	***<LOD***	***56***	***<LOD***	***145***	***<LOD***	***25***	***21***	***4***	***<LOD***	***10***	***<LOD***	***54***	***<LOD***	***4***	***<LOD***	***42***	***21***	***5***	***<LOD***	***102***
		S4	7.5-10.0	20	4	<LOD	56	<LOD	125	<LOD	25	15	4	<LOD	11	<LOD	53	<LOD	4	<LOD	41	35	5	<LOD	99
8/27/2018	B19	S1	0.5-2.5	<LOD	13	<LOD	55	<LOD	134	<LOD	23	26	4	<LOD	11	58	18	<LOD	4	<LOD	40	29	5	<LOD	98
		S2	***2.5-5.0***	***<LOD***	***13***	***<LOD***	***57***	***<LOD***	***143***	***<LOD***	***24***	***21***	***4***	***<LOD***	***12***	***<LOD***	***53***	***<LOD***	***4***	***<LOD***	***43***	***41***	***5***	***<LOD***	***103***
		S3	5.0-7.5	<LOD	11	<LOD	53	<LOD	124	<LOD	22	13	4	<LOD	10	<LOD	50	<LOD	3	<LOD	40	25	4	<LOD	96
		S4	7.5-10.0	<LOD	13	<LOD	55	<LOD	122	<LOD	22	22	4	<LOD	10	<LOD	47	<LOD	3	<LOD	40	18	4	<LOD	99
8/27/2018	B26	S1	0.0-2.5	12	4	<LOD	52	<LOD	127	<LOD	23	11	4	<LOD	9	<LOD	50	<LOD	4	<LOD	40	25	4	<LOD	94
		S2	2.5-5.0	<LOD	11	<LOD	53	<LOD	119	<LOD	24	13	4	<LOD	9	<LOD	48	<LOD	4	<LOD	39	22	4	<LOD	96
		S3	5.0-7.5	<LOD	11	<LOD	51	<LOD	121	<LOD	23	14	3	<LOD	10	54	17	<LOD	4	<LOD	38	19	4	<LOD	93
		S4	7.5-10.0	19	4	<LOD	53	<LOD	135	<LOD	25	<LOD	10	<LOD	11	<LOD	52	<LOD	4	<LOD	39	30	5	<LOD	96

Notes:
1 - Concentrations are in parts per million (milligrams/ kilogram).
2 - LOD - Limit of Detection (lower limit); < = less than.
3 - Instrument degree of measurement accuracy indicated by +/- value by metal and sample.
4 - Sample depth is in feet below ground surface.
5 - Sampling indicate in bold and italics was submitted for laboratory analyses for one or more parameters.
6 - Values highlighted in yellow exceed the SRS for that metal.
7 - Cr SRS is 130 for hexavalent Cr and 1,000 for trivalent Cr; for exceedence designation, Cr is inferred to be trivalent.

TABLE 2: SOIL SAMPLE ANALYTICAL RESULTS
W. W. Cross Property
Jaffrey, New Hampshire

Area of Concern	NH DES Soil Remediation Standards (SRS)	NH DES RCMP Method 1 NH S-1 Standards	NH DES RCMP Method 1 NH S-2 Standards	NH DES RCMP Method 1 NH S-3 Standards	US EPA Regional Screening Levels (RSLs) for Soil		AOC 1 (Wastewater Disposal System) / AOC 2 (Former Plating Area)												
Sample Location							B1-S2	B2-S3	B2-S4	B3-S2	B3-S3	B9-S2	B12-S2	B13-S5	B14-S2	B15-S4	B16-S4	B17-S3	B18-S3	B19-S2
Sample Depth (feet bgs)							2.5-5.0	5-7.5	7.5-9.0	2.5-5.0	5.0-8.0	2.5-5.0	2.5-5.0	10-12.5	2.0-4.0	8.0-10	7.5-10	5.0-8.0	5.0-7.5	2.5-5.0
Sample Date					Residential	Industrial	8/15/2018	8/17/2018	8/17/2018	8/16/2018	8/16/2018	8/15/2018	8/16/2018	8/15/2017	8/16/2018	8/16/2018	8/15/2018	8/15/2018	8/15/2018	8/15/2018
Volatile Organic Compounds (VOCs) (mg/kg)																				
Methylene chloride	0.1	0.1	0.1	0.1	57	1,000	BDL(0.00034)	NA	BDL(0.0026)	NA	BDL(0.0028)	BDL(0.0035)	BDL(0.21)	BDL(0.0025)	BDL(0.0033)	0.0015 J	BDL(0.0030)	BDL(0.0030)	BDL(0.0029)	BDL(0.0041)
Tetrachloroethene (PCE)	2.0	2.0	2.0	2.0	24	100	BDL(0.00034)	NA	BDL(0.00026)	NA	0.0017	BDL(0.00035)	BDL(0.021)	BDL(0.00025)	0.00044	BDL(0.00031)	BDL(0.00030)	BDL(0.00030)	BDL(0.00029)	BDL(0.00041)
Chlorobenzene	6	6	6	6	280	1,300	BDL(0.00034)	NA	BDL(0.00026)	NA	BDL(0.00028)	BDL(0.00035)	BDL(0.021)	BDL(0.00025)	BDL(0.00033)	BDL(0.00031)	BDL(0.00030)	BDL(0.00030)	BDL(0.00029)	BDL(0.00041)
Trichloroethene (TCE)	0.8	0.8	0.8	0.8	0.94	6	BDL(0.00034)	NA	BDL(0.00026)	NA	BDL(0.00028)	BDL(0.00035)	BDL(0.021)	BDL(0.00025)	BDL(0.00033)	BDL(0.00031)	BDL(0.00030)	BDL(0.00030)	BDL(0.00029)	BDL(0.00041)
1,2-Dichlorobenzene	88	88	88	88	1,800	9,300	BDL(0.0014)	NA	BDL(0.0010)	NA	BDL(0.0011)	BDL(0.0014)	BDL(0.084)	BDL(0.0010)	BDL(0.0013)	BDL(0.0012)	BLD(0.0012)	BDL(0.0012)	BDL(0.012)	BDL(0.0016)
1,3-Dichlorobenzene	150	150	150	150	NS	NS	BDL(0.0014)	NA	BDL(0.0010)	NA	BDL(0.0011)	BDL(0.0014)	BDL(0.084)	BDL(0.0010)	BDL(0.0013)	BDL(0.0012)	BLD(0.0012)	BDL(0.0012)	BDL(0.012)	BDL(0.0016)
1,4-Dichlorobenzene	7	7	7	7	2.6	11	BDL(0.0014)	NA	BDL(0.0010)	NA	BDL(0.0011)	BDL(0.0014)	BDL(0.084)	BDL(0.0010)	BDL(0.0013)	BDL(0.0012)	BLD(0.0012)	BDL(0.0012)	BDL(0.012)	BDL(0.0016)
Benzene	0.3	0.3	0.3	0.3	1.2	5.1	BDL(0.00034)	NA	BDL(0.00026)	NA	BDL(0.00028)	BDL(0.00035)	BDL(0.021)	0.00009 J	BDL(0.00033)	BDL(0.00031)	BDL(0.00030)	BDL(0.0003)	BDL(0.00029)	BDL(0.00041)
Toluene	100	100	100	100	4,900	47,000	BDL(0.0068)	NA	BDL(0.00052)	NA	BDL(0.00057)	BDL(0.00069)	BDL(0.042)	BDL(0.00050)	0.00039 J	BDL(0.00062)	BDL(0.00060)	BDL(0.00059)	BDL(0.00058)	BDL(0.00082)
Ethylbenzene	120	120	140	140	5.8	25	BDL(0.0068)	NA	BDL(0.00052)	NA	BDL(0.00057)	BDL(0.00069)	0.033 J	BDL(0.00050)	BDL(0.00065)	BDL(0.00062)	BDL(0.00060)	BDL(0.0024)	BDL(0.00058)	BDL(0.00082)
p/m-Xylene	500	500	1,000	1,500	560	2,400	BDL(0.0014)	NA	BDL(0.0010)	NA	BDL(0.0011)	BDL(0.0014)	0.18	BDL(0.0010)	BDL(0.0013)	BDL(0.0012)	BDL(0.0012)	BDL(0.0012)	BDL(0.0012)	BDL(0.0016)
o-Xylene	500	500	1,000	1,500	650	2,800	BDL(0.0068)	NA	BDL(0.00052)	NA	BDL(0.00057)	BDL(0.00069)	0.15	BDL(0.00050)	BDL(0.00065)	BDL(0.00062)	BDL(0.00060)	BDL(0.00059)	BDL(0.00058)	BDL(0.00082)
Xylenes, Total	500	500	1,000	1,500	580	2,500	BDL(0.0068)	NA	BDL(0.00052)	NA	BDL(0.00057)	BDL(0.00069)	0.33	BDL(0.00050)	BDL(0.00065)	BDL(0.00062)	BDL(0.00060)	BDL(0.00059)	BDL(0.00058)	BDL(0.00082)
Styrene	17	17	17	17	6,000	35,000	BDL(0.0068)	NA	BDL(0.00052)	NA	BDL(0.00057)	BDL(0.00069)	0.034 J	BDL(0.00050)	BDL(0.00065)	BDL(0.00062)	BDL(0.00060)	BDL(0.00059)	BDL(0.00058)	BDL(0.00082)
Acetone	75	75	75	75	61,000	670,000	BDL(0.0068)	NA	0.0052	NA	BDL(0.00057)	BDL(0.0069)	BDL(0.42)	0.0041 J	BDL(0.00065)	BDL(0.0062)	BDL(0.0060)	BDL(0.0059)	0.0093	0.0042 J
n-Butylbenzene	110	110	110	110	3,900	58,000	BDL(0.0068)	NA	BDL(0.00052)	NA	BDL(0.00057)	BDL(0.00069)	0.021 J	BDL(0.00050)	BDL(0.00065)	BDL(0.00062)	BLD(0.00060)	BDL(0.00059)	BDL(0.00058)	BDL(0.00082)
Isopropylbenzene	330	330	330	330	NS	NS	BDL(0.0068)	NA	BDL(0.00052)	NA	BDL(0.00057)	BDL(0.00069)	0.0062 J	BDL(0.00050)	BDL(0.00065)	BDL(0.00062)	BLD(0.00060)	BDL(0.00059)	BDL(0.00058)	BDL(0.00082)
p-Isopropyltoluene	NS	NS	NS	NS	NS	NS	BDL(0.0068)	NA	BDL(0.00052)	NA	BDL(0.00057)	BDL(0.00069)	0.012 J	BDL(0.00050)	BDL(0.00065)	BDL(0.00062)	BLD(0.00060)	BDL(0.00059)	BDL(0.00058)	BDL(0.00082)
Naphthalene	28	28	28	28	3.8	17	BDL(0.0027)	NA	BDL(0.0021)	NA	0.00087 J	BDL(0.0028)	3.1 J	BDL(0.0020)	BDL(0.0026)	BDL(0.0025)	BDL(0.0024)	BDL(0.0024)	BDL(0.0023)	BDL(0.0033)
n-Propylbenzene	85	85	85	85	3,800	24,000	BDL(0.0068)	NA	BDL(0.00052)	NA	BDL(0.00057)	BDL(0.00069)	0.029 J	BDL(0.00050)	BDL(0.00065)	BDL(0.00062)	BDL(0.00060)	BDL(0.00059)	BDL(0.00058)	BDL(0.00082)
1,3,5-Trimethylbenzene	96	96	96	96	270	1,500	BDL(0.0014)	NA	BDL(0.0010)	NA	BDL(0.0011)	BDL(0.0014)	0.22 J	BDL(0.0010)	BDL(0.0013)	BDL(0.0012)	BDL(0.0012)	BDL(0.0012)	BDL(0.0012)	BDL(0.0016)
1,2,4-Trimethylbenzene	130	130	130	130	300	1,800	BDL(0.0014)	NA	BDL(0.0010)	NA	BDL(0.0011)	BDL(0.0014)	0.055 J	BDL(0.0017)	BDL(0.0013)	BDL(0.0012)	BDL(0.0012)	BDL(0.0012)	BDL(0.0012)	BDL(0.0016)
Polynuclear Aromatic Hydrocarbons (PAHs) (mg/kg)																				
Acenaphthene	340	340	340	340	3,600	45,000	BDL(0.14)	NA	BDL(0.14)	NA	0.38	BDL(0.14)	16	BDL(0.14)	BDL(0.14)	BDL(0.16)	NA	NA	NA	NA
2-Chloronaphthalene	NS	NS	NS	NS	4,800	60,000	BDL(0.18)	NA	BDL(0.18)	NA	BDL(0.19)	BDL(0.18)	BDL(0.17)	BDL(0.18)	BDL(0.18)	BDL(0.2)	NA	NA	NA	NA
Fluoranthene	960	960	2,500	5,000	2,400	30,000	BDL(0.11)	NA	BDL(0.11)	NA	4.9	BDL(0.11)	98	BDL(0.11)	BDL(0.11)	BDL(0.12)	NA	NA	NA	NA
Naphthalene	28	28	28	28	3.8	17	BDL(0.18)	NA	BDL(0.18)	NA	0.26	BDL(0.18)	14	BDL(0.18)	BDL(0.18)	BDL(0.2)	NA	NA	NA	NA
Benzo[a]anthracene	1	1	4	52	1.1	21	BDL(0.11)	NA	BDL(0.11)	NA	**2.8**	BDL(0.11)	**43**	BDL(0.11)	BDL(0.11)	BDL(0.12)	NA	NA	NA	NA
Benzo[a]pyrene	0.7	0.7	0.7	5	0.11	2.1	BDL(0.14)	NA	BDL(0.14)	NA	**2.7**	BDL(0.14)	**26**	BDL(0.14)	BDL(0.14)	BDL(0.16)	NA	NA	NA	NA
Benzo[b]fluoranthene	1	1	4	52	1.1	21	BDL(0.11)	NA	BDL(0.11)	NA	**3.7**	BDL(0.11)	**37**	BDL(0.11)	BDL(0.11)	BDL(0.12)	NA	NA	NA	NA
Benzo[k]fluoranthene	12	12	36	520	11	210	BDL(0.11)	NA	BDL(0.11)	NA	1.3	BDL(0.11)	**13**	BDL(0.11)	BDL(0.11)	BDL(0.12)	NA	NA	NA	NA
Chrysene	120	120	360	5,200	110	2,100	BDL(0.11)	NA	BDL(0.11)	NA	2.8	BDL(0.11)	40	BDL(0.11)	BDL(0.11)	BDL(0.12)	NA	NA	NA	NA
Acenaphthylene	490	490	490	490	3,600	45,000	BDL(0.14)	NA	BDL(0.14)	NA	0.32	BDL(0.14)	20	BDL(0.14)	BDL(0.14)	BDL(0.16)	NA	NA	NA	NA
Anthracene	1,000	1,000	2,500	5,000	18,000	23,000	BDL(0.11)	NA	BDL(0.11)	NA	0.94	BDL(0.11)	37	BDL(0.11)	BDL(0.11)	BDL(0.12)	NA	NA	NA	NA
Benzo(g,h,i)perylene	NS	NS	NS	NS	NS	NS	BDL(0.14)	NA	BDL(0.14)	NA	1.8	BDL(0.14)	17	BDL(0.14)	BDL(0.14)	BDL(0.16)	NA	NA	NA	NA
Fluorene	77	77	77	77	2,400	30,000	BDL(0.18)	NA	BDL(0.18)	NA	0.41	BDL(0.18)	34	BDL(0.18)	BDL(0.18)	BDL(0.2)	NA	NA	NA	NA
Phenanthrene	NS	NS	NS	NS	NS	NS	BDL(0.11)	NA	BDL(0.11)	NA	3.5	BDL(0.11)	140	BDL(0.11)	BDL(0.11)	BDL(0.12)	NA	NA	NA	NA
Dibenzo[a,h]anthracene	0.7	0.7	0.7	5	0.11	2.1	BDL(0.11)	NA	BDL(0.11)	NA	0.48	BDL(0.11)	**4.8**	BDL(0.11)	BDL(0.11)	BDL(0.12)	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	1	1	4	52	1.1	21	BDL(0.14)	NA	BDL(0.14)	NA	**1.9**	BDL(0.14)	**18**	BDL(0.14)	BDL(0.14)	BDL(0.16)	NA	NA	NA	NA
Pyrene	720	720	2,500	5,000	1,800	23,000	BDL(0.11)	NA	BDL(0.11)	NA	4.1	BDL(0.11)	84	BDL(0.11)	BDL(0.11)	BDL(0.12)	NA	NA	NA	NA
1-Methylnaphthalene	NS	NS	NS	NS	18	730	BDL(0.18)	NA	BDL(0.18)	NA	0.12 J	BDL(0.18)	15	BDL(0.18)	BDL(0.18)	BDL(0.2)	NA	NA	NA	NA
2-Methylnaphthalene	96	96	100	100	240	3,000	BDL(0.22)	NA	BDL(0.22)	NA	0.14 J	BDL(0.22)	20	BDL(0.22)	BDL(0.22)	BDL(0.24)	NA	NA	NA	NA
Total Cyanide (mg/kg)																				
Cyanide	22	22	100	200	23	150	BDL(1)	NA	BDL(1.1)	NA	BDL(0.42)	BDL(0.95)	BDL(1)	BDL(1.1)	BDL(1.1)	BDL(1.1)	BDL(1.1)	BDL(1.1)	BDL(1.2)	BDL(1)
Total Petroleum Hydrocarbons-Diesel Range Organics (TPH-DRO) (mg/kg)																				
TPH-DRO	10,000	10,000	10,000	10,000	NS	NS	26.8 J	NA	BDL(36.4)	NA	324	BDL(32.9)	4,530	BDL(37)	6.01 J	BDL(39)	NA	NA	NA	NA
Metals (mg/kg)																				
Antimony	9	9	74	74	31	470	0.669 J	0.668 J	NA	4.1	NA	1.02 J	1 J	1.69 J	1.3 J	1.6 J	1.07 J	0.974 J	1.33 J	1.23 J
Arsenic	11	11	11	47	0.68	3	5.15	7.2	NA	9.73	NA	3.66	4.6	5.13	5.21	5.33	4.13	6.18	**20**	5.69
Beryllium	12	12	89	100	160	2,300	0.459	0.33	NA	0.169 J	NA	0.266	0.24	0.55	0.361	0.492	0.456	0.388	0.543	0.464
Cadmium	33	33	280	280	71	980	0.149 J	**253**	NA	17.2	NA	0.184 J	4.06	0.314 J	0.259 J	0.63	0.309 J	0.23 J	0.386 J	0.228 J
Chromium, Total	130*	130*	130*	130*	0.3	6.3	4.1	8.4	NA	23.7	NA	7.91	8.96	12.2	11.3	10.1	9.26	7.52	12.4	9.38
Copper	NS	NS	NS	NS	3,100	47,000	6.06	128	NA	498	NA	7.04	6.42	10.8	9.71	31.2	6.6	33.8	8.42	9.92
Lead	400	400	400	400	400	800	3.21	2.9	NA	98.9	NA	2.56	6.43	4.26	5.08	3.46	2.95	3.26	3.48	3.77
Mercury	7	7	52	52	11	46	BDL(0.069)	BDL(0.07)	NA	BDL(0.082)	NA	BDL(0.065)	BDL(0.086)	BDL(0.071)	BDL(0.068)	BDL(0.077)	BDL(0.078)	BDL(0.072)	BDL(0.074)	BDL(0.068)
Nickel	400	400	2,500	3,100	820	11,000	2.72	5.01	NA	23	NA	5.5	3.93	7.91	6.99	6.11	4.39	4.89	5.94	6.25
Selenium	180	180	1,600	1,600	390	5,800	0.201 J	BDL(0.868)	NA	BDL(0.965)	NA	0.34 J	0.289 J	0.271 J	0.476 J	0.902 J	0.446 J	0.388 J	0.566 J	0.36 J
Silver	89	89	690	690	390	5,800	BDL(0.437)	BDL(0.434)	NA	BDL(0.482)	NA	BDL(0.391)	BDL(0.407)	BDL(0.437)	BDL(0.425)	BDL(0.46)	BDL(0.491)	BDL(0.451)	BDL(0.46)	BDL(0.414)
Thallium	10	10	10	10	0.78	12	BDL(0.875)	BDL(0.868)	NA	BDL(0.965)	NA	BDL(0.781)	BDL(0.814)	BDL(0.873)	BDL(0.849)	BDL(0.92)	BDL(0.981)	BDL(0.902)	BDL(0.92)	BDL(0.829)
Zinc	1,000	1,000	2,500	5,000	23,000	350,000	15.8	302	NA	456	NA	14.9	26.5	30.5	20.7	15.6	15.6	19	18.6	20.2

Legend:

AOC - Area of Concern (identified in report text)	bgs = Below Ground Surface
mg/kg = milligrams per kilogram	NS = No Standard
BDL( ) = Below laboratory detection limit shown in parenthesis	NA = Not Analyzed
J = estimated concentration detected above laboratory detection limit, but below laboratory reporting limit	

NOTES:
1 - NH DES Env-Or 600 Soil Remediation Standards, updated September 1, 2018.
2 - NHDES Risk Characterization and Management Policy (RCMP) standards were updated February 2013.
3 - US EPA Regional Screening Levels, updated November 2018, Total Hazard Quotient = 1.
4 - Bold type font and boxed value indicates concentration exceeds the NH DES SRS.
5 - Xylenes SRS listed are for total xylenes (mixed isomers). Total chromium SRS shown is for "worst case" hexavalent chromium.
6 - Concentration values shaded orange indicate RCMP Method 1, NH S-3 standard is exceeded.

TABLE 2: SOIL SAMPLE ANALYTICAL RESULTS
W. W. Cross Property
Jaffrey, New Hampshire

Area of Concern	NH DES Soil Remediation Standards (SRS)	NH DES RCMP Method 1 NH S-1 Standards	NH DES RCMP Method 1 NH S-2 Standards	NH DES RCMP Method 1 NH S-3 Standards	US EPA Regional Screening Levels (RSLs) for Soil		AOC 3 (Former UST Area)		AOC 4 (Inactive Fuel Oil AST)		AOC 5 (Facility Loading /Unloading Areas)				
Sample Location							B4-S3	B21-S4	B5-S3	B22- S2	B6-S1	B23	B24	B25	B26-S3
Sample Depth (feet bgs)							5.5-8.0	7.5-10	5.0-8.0	2.5-5.0	1.0-2.5	0.2-1.5	0.3-1.4	0.2-1.5	5.0-7.5
Sample Date					Residential	Industrial	8/15/2018	8/15/2018	8/16/2018	8/16/2018	8/16/2018	9/13/2018	9/6/2018	9/6/2018	8/16/2018
Volatile Organic Compounds (VOCs) (mg/kg)															
Methylene chloride	0.1	0.1	0.1	0.1	57	1,000	BDL(0.0034)	BDL(0.0033)	0.14 J	BDL(0.0032)	0.0023 J	NA	NA	NA	BDL(0.270)
Tetrachloroethene (PCE)	2.0	2.0	2.0	2.0	24	100	BDL(0.00034)	BDL(0.00033)	BDL(0.017)	BDL(0.00032)	BDL(0.00031)	NA	NA	NA	BDL(0.027)
Chlorobenzene	6	6	6	6	280	1,300	BDL(0.00034)	BDL(0.00033)	0.071	BDL(0.00032)	BDL(0.00031)	NA	NA	NA	BDL(0.027)
Trichloroethene (TCE)	0.8	0.8	0.8	0.8	0.94	6	BDL(0.00034)	BDL(0.00033)	BDL(0.017)	BDL(0.00032)	BDL(0.00031)	NA	NA	NA	BDL(0.027)
1,2-Dichlorobenzene	88	88	88	88	1,800	9,300	BDL(0.0013)	BDL(0.0013)	0.33	0.0028	BDL(0.0012)	NA	NA	NA	BDL(0.110)
1,3-Dichlorobenzene	150	150	150	150	NS	NS	BDL(0.0013)	BDL(0.0013)	0.016 J	BDL(0.0013)	BDL(0.0012)	NA	NA	NA	BDL(0.110)
1,4-Dichlorobenzene	7	7	7	7	2.6	11	BDL(0.0013)	BDL(0.0013)	0.027 J	BDL(0.0013)	BDL(0.0012)	NA	NA	NA	BDL(0.110)
Benzene	0.3	0.3	0.3	0.3	1.2	5.1	BDL(0.00034)	0.0049 J	BDL(0.017)	BDL(0.0013)	BDL(0.00031)	NA	NA	NA	BDL(0.027)
Toluene	100	100	100	100	4,900	47,000	BDL(0.00067)	BDL(0.00067)	BDL(0.034)	BDL(0.00032)	BDL(0.00062)	NA	NA	NA	BDL(0.054)
Ethylbenzene	120	120	140	140	5.8	25	BDL(0.00067)	BDL(0.00067)	BDL(0.034)	BDL(0.00064)	BDL(0.00062)	NA	NA	NA	BDL(0.054)
p/m-Xylene	500	500	1,000	1,500	560	2,400	BDL(0.0013)	BDL(0.0013)	BDL(0.069)	BDL(0.0013)	BDL(0.0012)	NA	NA	NA	BDL(0.110)
o-Xylene	500	500	1,000	1,500	650	2,800	BDL(0.00067)	BDL(0.00067)	BDL(0.034)	BDL(0.00064)	BDL(0.00062)	NA	NA	NA	0.023 J
Xylenes, Total	500	500	1,000	1,500	580	2,500	BDL(0.00067)	BDL(0.00067)	BDL(0.034)	BDL(0.00064)	BDL(0.00062)	NA	NA	NA	0.023 J
Styrene	17	17	17	17	6,000	35,000	BLD(0.00067)	BDL(0.00067)	BDL(0.034)	BDL(0.00064)	BDL(0.00062)	NA	NA	NA	0.016 J
Acetone	75	75	75	75	61,000	670,000	BDL(0.0067)	0.00036 J	BDL(0.340)	0.015	0.055	NA	NA	NA	BDL(0.540)
n-Butylbenzene	110	110	110	110	3,900	58,000	BDL(0.00067)	BDL(0.00067)	BDL(0.034)	BDL(0.00064)	BDL(0.00062)	NA	NA	NA	BDL(0.054)
Isopropylbenzene	330	330	330	330	NS	NS	BLD(0.00067)	BDL(0.00067)	BDL(0.034)	BDL(0.00064)	BDL(0.00062)	NA	NA	NA	BDL(0.054)
p-Isopropyltoluene	NS	NS	NS	NS	NS	NS	BLD(0.00067)	BDL(0.00067)	BDL(0.034)	BDL(0.00064)	BDL(0.00062)	NA	NA	NA	BDL(0.054)
Naphthalene	28	28	28	28	3.8	17	BDL(0.0027)	BDL(0.0027)	BDL(0.140)	BDL(0.0026)	BDL(0.0025)	NA	NA	NA	24
n-Propylbenzene	85	85	85	85	3,800	24,000	BDL(0.00067)	BDL(0.00067)	BDL(0.034)	BDL(0.00064)	BDL(0.00062)	NA	NA	NA	BDL(0.054)
1,3,5-Trimethylbenzene	96	96	96	96	270	1,500	BLD(0.0013)	BDL(0.0013)	BDL(0.069)	BDL(0.0013)	BDL(0.0012)	NA	NA	NA	0.035 J
1,2,4-Trimethylbenzene	130	130	130	130	300	1,800	BLD(0.0013)	BDL(0.0013)	BDL(0.069)	BDL(0.0013)	BDL(0.0012)	NA	NA	NA	0.1J
Polynuclear Aromatic Hydrocarbons (PAHs) (mg/kg)															
Acenaphthene	340	340	340	340	3,600	45,000	BDL(0.14)	BDL(0.14)	2.2	BDL(0.15)	BDL(0.16)	0.61	0.43	9	0.9
2-Chloronaphthalene	NS	NS	NS	NS	4,800	60,000	BDL(0.18)	BDL(0.18)	BDL(0.19)	BDL(0.19)	BDL(0.2)	0.11 J	0.022 J	0.47 J	BDL(0.22)
Fluoranthene	960	960	2,500	5,000	2,400	30,000	BDL(0.11)	BDL(0.11)	14	1.1	0.051 J	7	10	76	16
Naphthalene	28	28	28	28	3.8	17	BDL(0.18)	BDL(0.18)	0.91	0.042 J	BDL(0.2)	1.1	0.88	15	7.8
Benzo[a]anthracene	1	1	4	52	1.1	21	BDL(0.11)	BDL(0.11)	4.8	0.72	0.031 J	3.6	4.2	34	5.1
Benzo[a]pyrene	0.7	0.7	0.7	5	0.11	2.1	BDL(0.14)	BDL(0.14)	3.6	0.79	BDL(0.16)	3.2	2.6	22	4
Benzo[b]fluoranthene	1	1	4	52	1.1	21	BDL(0.11)	BDL(0.11)	4.4	1	BDL(0.12)	4.5	4.9	36	5.3
Benzo[k]fluoranthene	12	12	36	520	11	210	BDL(0.11)	BDL(0.11)	1.4	0.36	BDL(0.12)	1.3	1.6	11	1.9
Chrysene	120	120	360	5,200	110	2,100	BDL(0.11)	BDL(0.11)	4.6	0.7	0.027 J	3.4	4.4	32	4.8
Acenaphthylene	490	490	490	490	3,600	45,000	BDL(0.14)	BDL(0.14)	2.7	0.21	BDL(0.16)	0.74	1	2	2.8
Anthracene	1,000	1,000	2,500	5,000	18,000	23,000	BDL(0.11)	BDL(0.11)	3.8	0.16	BDL(0.12)	1.4	1.7	18	3.8
Benzo(g,h,i)perylene	NS	NS	NS	NS	NS	NS	BDL(0.14)	BDL(0.14)	2.2	0.46	BDL(0.16)	2.6	1.6	14	2.5
Fluorene	77	77	77	77	2,400	30,000	BDL(0.18)	BDL(0.18)	3.9	0.036 J	BDL(0.2)	0.58	0.46	11	4.3
Phenanthrene	NS	NS	NS	NS	NS	NS	BDL(0.11)	BDL(0.11)	17	0.36	0.053 J	4.7	3.8	63	22
Dibenzo[a,h]anthracene	0.7	0.7	0.7	5	0.11	2.1	BDL(0.11)	BDL(0.11)	0.54	0.12	BDL(0.12)	0.56	0.48	4	0.62
Indeno[1,2,3-cd]pyrene	1	1	4	52	1.1	21	BDL(0.14)	BDL(0.14)	2.3	0.54	BDL(0.16)	2.8	2	16	2.6
Pyrene	720	720	2,500	5,000	1,800	23,000	BDL(0.11)	BDL(0.11)	14	0.98	0.039 J	5.1	8.4	47	13
1-Methylnaphthalene	NS	NS	NS	NS	18	730	BDL(0.18)	BDL(0.18)	2.6	BDL(0.19)	BDL(0.2)	0.53	0.38	4	3.5
2-Methylnaphthalene	96	96	100	100	240	3,000	BDL(0.22)	BDL(0.22)	1.9	BDL(0.23)	BDL(0.24)	0.56	0.43	6	4.4
Total Cyanide (mg/kg)															
Cyanide	22	22	100	200	23	150	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons-Diesel Range Organics (TPH-DRO) (mg/kg)															
TPH-DRO	10,000	10,000	10,000	10,000	NS	NS	BDL(33.8)	BDL(35)	306	23.6 J	19.3 J	565	222	2,610	1,750
Metals (mg/kg)															
Antimony	9	9	74	74	31	470	NA	NA	NA	NA	0.912 J	0.668 J	0.768 J	0.603 J	0.911 J
Arsenic	11	11	11	47	0.68	3	NA	NA	NA	NA	2.1	5.5	6.18	8.5	4.78
Beryllium	12	12	89	100	160	2,300	NA	NA	NA	NA	0.173 J	0.171 J	0.094 J	0.205 J	0.209 J
Cadmium	33	33	280	280	71	980	NA	NA	NA	NA	0.13 J	2.55	1.36	1.25	0.134 J
Chromium, Total	130*	130*	130*	130*	0.3	6.3	NA	NA	NA	NA	5.79	10.9	6.33	6.69	7.66
Copper	NS	NS	NS	NS	3,100	47,000	NA	NA	NA	NA	4.22	122	67.2	119	4.85
Lead	400	400	400	400	400	800	NA	NA	NA	NA	3.48	150	97.6	78.2	3.74
Mercury	7	7	52	52	11	46	NA	NA	NA	NA	BDL(0.077)	0.161	0.114	BDL(0.069)	BDL(0.085)
Nickel	400	400	2,500	3,100	820	11,000	NA	NA	NA	NA	3.95	10.6	7.44	9.99	3.9
Selenium	180	180	1,600	1,600	390	5,800	NA	NA	NA	NA	0.403 J	0.356 J	0.219 J	0.488 J	0.488 J
Silver	89	89	690	690	390	5,800	NA	NA	NA	NA	BDL(0.48)	0.153 J	BDL(0.429)	BDL(0.428)	BDL(0.536)
Thallium	10	10	10	10	0.78	12	NA	NA	NA	NA	BDL(0.96)	BDL(0.902)	ND(0.858)	BDL(0.855)	BDL(1.07)
Zinc	1,000	1,000	2,500	5,000	23,000	350,000	NA	NA	NA	NA	13	266	164	114	13.3

Legend:

AOC - Area of Concern (identified in report text)	bgs = Below Ground Surface
mg/kg = milligrams per kilogram	NS = No Standard
BDL( ) = Below laboratory detection limit shown in parenthesis	NA = Not Analyzed
J = estimated concentration detected above laboratory detection limit, but below laboratory reporting limit	

NOTES:
1 - NH DES Env-Or 600 Soil Remediation Standards, updated September 1, 2018.
2 - NHDES Risk Characterization and Management Policy (RCMP) standards were updated February 2013.
3 - US EPA Regional Screening Levels, updated November 2018, Total Hazard Quotient = 1.
4 - Bold type font and boxed value indicates concentration exceeds the NH DES SRS.
5 - Xylenes SRS listed are for total xylenes (mixed isomers). Total chromium SRS shown is for "worst case" hexavalent chromium.
6 - Concentration values shaded orange indicate RCMP Method 1, NH S-3 standard is exceeded.

TABLE 3: CONCRETE SAMPLE LABORATORY ANALYTICAL RESULTS
W. W. Cross Property
Jaffrey, New Hampshire

Area of Concern							AOC 1 (Wastewater Disposal System) / AOC 2 (Former Plating Area)							
Sample Location	NH DES Soil Remediation Standards (SRS)	NH DES RCMP Method 1 NH S-1 Standards	NH DES RCMP Method 1 NH S-2 Standards	NH DES RCMP Method 1 NH S-3 Standards	US EPA Regional Screening Levels (RSLs) for Soil		CS-1 [B1]	CS-2 [B2]	CS-8 [B8]	CS-9 [B9]	CS-16 [B16]	B17-S3	CS-18 [B18]	CS-19 [B19]
Sample Date					Residential	Industrial	8/15/2018	8/17/2018	8/15/2018	8/15/2018	8/15/2018	8/15/2018	8/15/2018	8/15/2018
Metals (mg/kg)														
Antimony	9	9	74	74	31	470	0.564 J	0.547 J	1.84 J	4.01	1.88 J	1.22 J	6.73	0.369 J
Arsenic	11	11	11	47	0.68	3	4.14	8.57	5.63	8.93	7.36	3.19	11.7	1.93
Beryllium	12	12	89	100	160	2,300	0.174 J	0.181 J	0.152J	0.191 J	0.178 J	0.121 J	0.223	0.162 J
Cadmium	33	33	280	280	71	980	BDL(0.406)	BDL(0.411)	BDL(0.391)	BDL(2.03)	BDL(2.02)	BDL(0.402)	BDL(1.99)	ND
Chromium, Total	130*	130*	130*	130*	NS	NS	14	11.9	25	56.8	35.2	23.3	86.8	7.17
Chromium, Hexavalent	130	130	130	130	0.30	6.3								
Chromium, Trivalent	1,000	1,000	2,500	5,000	120,000	1,800,000								
Copper	NS	NS	NS	NS	3,100	47,000	9	16.1	22	107	32.3	13	95.6	9.79
Lead	400	400	400	400	400	800	2.74	4.51	6.86	13.3	16.4	27.2	19.4	4.19
Mercury	7	7	52	52	11	46	BDL(0.067)	BDL(0.065)	0.03 J	0.016 J	ND	0.015 J	0.095	BDL(0.067)
Nickel	400	400	2,500	3,100	820	11,000	7.42	6.72	11	31.4	17.7	7.85	45.1	4.49
Selenium	180	180	1,600	1,600	390	5,800	0.219 J	0.193 J	BDL(0.781)	0.211 J	0.21 J	BDL(0.805)	0.132 J	0.51 J
Silver	89	89	690	690	390	5,800	BDL(0.406)	BDL(0.411)	0.543	0.341 J	1.14	0.797	BDL(0.399)	BDL(0.405)
Thallium	10	10	10	10	1.6	23	BDL(0.811)	BDL(0.822)	BDL(0.781)	BDL(0.812)	BDL(0.807)	BDL(0.805)	BDL(0.798)	BDL(0.81)
Zinc	1,000	1,000	2,500	5,000	23,000	350,000	19.4	451	90.7	87	40.5	38.6	26.3	21.8
Polychlorinated Biphenyls (PCBs) (mg/kg)														
Total PCBs	1	1	10	25	NS	NS	BDL(0.0201-0.0604)	BDL(0.0193-0.0579)	BDL(0.0177-0.053)	0.136	NA	NA	NA	NA

Legend:

AOC - Area of Concern (identified in report text)	
mg/kg = milligrams per kilogram	NS = No Standard
BDL( ) = Below laboratory detection limit show	NA = Not Analyzed
J = estimated concentration detected above laboratory detection limit, but below laboratory reporting limit	

NOTES:

1 - NH DES Env-Or 600 Soil Remediation Standards, updated September 1, 2018.
2 - NHDES Risk Characerization and Management Policy (RCMP) standards were updated February 2013.
3 - US EPA Regional Screening Levels, updated November 2018, Total Hazard Quotient = 1. Individual RSLs for Cr III and Cr VI, and PCB aroclors are not shown.
4 - Bold type font and boxed value indicates concentration exceeds the NH DES SRS.
5 - Total chromium SRS shown is for "worst case" hexavalent chromium.
6 - Concentration values shaded orange indicate RCMP Method 1, NH S-3 standard is exceeded.
7 - Concrete samples were collected from the upper 0.5 inch of concrete floor.

TABLE 4. GROUNDWATER ELEVATION AND SELECTED FIELD PARAMETERS
W. W. Cross Property
Jaffrey, New Hampshire

Monitoring Well I.D.	Date	Reference Elevation (feet)	Depth to Water from Ref. Elev. (feet)	Ground Elevation (feet)	Depth to Water from Grade (feet)	Ground Water Elevation (feet)	Temp. (C)	pH (S.U.)	Dissolved Oxygen (mg/L)	ORP (mv)	Specific Conductivity (mS/cm)	Notes
MW101	6-Sep-18	105.01	8.12	105.34	8.45	96.89	17.57	6.08	6.13	143	3.847	
MW102	6-Sep-18	105.45	9.35	105.70	9.60	96.10	18.56	6.82	3.24	214.4	0.949	Slow Recharge
	13-Sep-18		16.04		16.29	89.41		5.50	7.26		1.909	
MW103	1-Sep-15	100.12	9.29	100.44	9.61	90.83	19.56	6.63	5.54	177.4	0.192	
MW104	1-Sep-15	105.15	10.62	105.53	11.00	94.53	17.34	6.34	5.76	119.2	0.951	Slow Recharge
	13-Sep-18		19.19		19.57	85.96		6.36	2.66		1.099	
MW105	1-Sep-15	101.87	4.19	102.28	4.60	97.68	20.84	7.63	0.45	-116	0.453	
MW106	1-Sep-15	101.36	2.86	101.58	3.08	98.50	23.57	5.80	0.22	111	0.323	
MW107	1-Sep-15	101.22	5.79	101.59	6.16	95.43	21.85	5.19	2.24	275	2.071	
MW108	1-Sep-15	101.35	4.65	101.71	5.01	96.70	24.03	6.29	0.21	-50.4	0.246	
MW14	1-Sep-15	99.76	20.04	99.94	20.22	79.72						

NOTES:
1 - Reference elevation is the highest point of the PVC riser pipe at each location, relative to an assumed datum of 100 feet for a nail set in a telephone pole (adjacent to MW3) and to top of PVC for Loureiro MW14 (99.76 feet).
2 - Depth to ground water measured using an electronic water level indicator.
3 - For pH, S.U. = Standard Units.
4 - For Dissolved Oxygen, ppm = parts per million.
5 - For Specific Conductivity, mS/cm = milliSiemens per centimeter.

TABLE 5. GROUNDWATER SAMPLE ANALYTICAL RESULTS
W. W. Cross Property
Jaffrey, New Hampshire

LOCATION	SAMPLING DATE	NH DES Ambient Groundwater Quality Standards	RCMP GW-2 Standard	US EPA Maximum Contaminant Levels	MW101	MW102	MW103	MW104	MW105	MW106	MW107	MW108	GW-DUP	FIELD BLANK
Volatile Organic Compounds (VOCs) (µg/L)														
Acetone	9/6/2018	6,000	NS	NS	2.3 J	28	BDL(5.0)	BDL(5.0)	BDL(5.0)	BDL(5.0)	BDL(5.0)	BDL(5.0)	BDL(5.0)	
Benzene	9/6/2018	5	2,900	5	BDL(0.50)	0.23 J	BDL(0.50)	BDL(0.50)	0.3 J	BDL(0.50)	BDL(0.50)	BDL(0.50)	BDL(0.50)	
t-Butyl alcohol (TBA)	9/6/2018	40	NS	NS	BDL(10)	2.6 J	BDL(10)	BDL(10)	BDL(10)	BDL(10)	BDL(10)	BDL(10)	BDL(10)	
Carbon Disulfide	9/6/2018	70	NS	NS	BDL(0.50)	0.45 J	BDL(0.50)	0.45 J	BDL(5.0)	BDL(5.0)	BDL(5.0)	BDL(5.0)	BDL(5.0)	
Chlorobenzene (Monochlorobenzene)	9/6/2018	100	1,500	100	BDL(0.50)	BDL(0.50)	BDL(0.50)	BDL(0.50)	96	BDL(0.50)	BDL(0.50)	BDL(0.50)	BDL(0.50)	
Chloromethane (Methyl Chloride)	9/6/2018	30	NS	NS	BDL(3.0)	0.43 J	BDL(2.5)	BDL(2.5)	BDL(2.5)	BDL(2.5)	BDL(2.5)	BDL(2.5)	BDL(2.5)	
1,2-Dichlorobenzene	9/6/2018	600	14,000	600	BDL(2.5)	BDL(2.5)	BDL(2.5)	BDL(2.5)	120	0.31 J	BDL(2.5)	BDL(2.5)	BDL(2.5)	
1,3-Dichlorobenzene	9/6/2018	600	NS	NS	BDL(2.5)	BDL(2.5)	BDL(2.5)	BDL(2.5)	6.7	BDL(2.5)	BDL(2.5)	BDL(2.5)	BDL(2.5)	
1,4-Dichlorobenzene	9/6/2018	75	80	75	BDL(2.5)	BDL(2.5)	BDL(2.5)	BDL(2.5)	9.6	BDL(2.5)	BDL(2.5)	BDL(2.5)	BDL(2.5)	
cis-1,2-Dichloroethene	9/6/2018	70	NS	70	BDL(0.50)	0.22 J	BDL(0.50)	BDL(0.50)	0.49 J	1.7	BDL(0.50)	0.5 J	0.46 J	
Ethylbenzene	9/6/2018	700	1,500	700	BDL(0.50)	BDL(0.50)	BDL(0.50)	BDL(0.50)	0.54	BDL(0.50)	BDL(0.50)	BDL(0.50)	BDL(0.50)	
p-Isopropyltoluene	9/6/2018	260	NS	NS	BDL(0.50)	BDL(0.50)	BDL(0.50)	BDL(0.50)	0.49 J	BDL(0.50)	BDL(0.50)	BDL(0.50)	BDL(0.50)	
Methyl ethyl ketone (2-Butanone)	9/6/2018	4,000	50,000	NS	BDL(0.50)	5.7	BDL(5.0)	BDL(5.0)	BDL(5.0)	BDL(5.0)	BDL(5.0)	BDL(5.0)	BDL(5.0)	
Methyl isobutyl ketone (4-Methyl-2-penta	9/6/2018	2,000	50,000	NS	BDL(0.50)	0.57 J	BDL(5.0)	BDL(5.0)	BDL(5.0)	BDL(5.0)	BDL(5.0)	BDL(5.0)	BDL(5.0)	
Naphthalene	9/6/2018	100	1,700	NS	BDL(2.5)	16	BDL(2.5)	BDL(2.5)	30	0.54 J	1.1 J	**180**	**180**	
n-Propylbenzene	9/6/2018	260	NS	NS	BDL(0.50)	BDL(0.50)	BDL(0.50)	BDL(0.50)	0.19 J	BDL(0.50)	BDL(0.50)	BDL(0.50)	BDL(0.50)	
Tetrachloroethene (PCE)	9/6/2018	5	240	5	2.6	**5.8**	0.94	**8.6**	BDL(0.50)	1.4	BDL(0.50)	BDL(0.50)	BDL(0.50)	
Toluene	9/6/2018	1,000	50,000	1,000	BDL(0.75)	BDL(0.75)	BDL(0.75)	BDL(0.75)	0.57 J	BDL(0.75)	BDL(0.75)	BDL(0.75)	BDL(0.75)	
Trichloroethene	9/6/2018	5	20	5	BDL(0.50)	0.67	BDL(0.50)	0.22 J	1	BDL(0.50)	BDL(0.50)	0.33 J	0.33 J	
1,2,4-Trimethylbenzene	9/6/2018	330	1,300	NS	BDL(2.5)	0.26 J	BDL(2.5)	BDL(2.5)	5.6	BDL(2.5)	BDL(2.5)	1 J	1 J	
1,3,5-Trimethylbenzene	9/6/2018	330	NS	NS	BDL(2.5)	0.22 J	BDL(2.5)	BDL(2.5)	1 J	BDL(2.5)	BDL(2.5)	0.38 J	0.36 J	
o-Xylene	9/6/2018	10,000 (1)	17,000 (1)	10,000 (1)	BDL(1.0)	BDL(1.0)	BDL(1.0)	BDL(1.0)	0.66 J	BDL(1.0)	BDL(1.0)	BDL(1.0)	BDL(1.0)	
p/m-Xylene	9/6/2018	10,000 (1)	17,000 (1)	10,000 (1)	BDL(1.0)	BDL(1.0)	BDL(1.0)	BDL(1.0)	0.71 J	BDL(1.0)	BDL(1.0)	BDL(1.0)	0.33 J	
Total Xylene	9/6/2018	10,000 (1)	17,000 (1)	10,000 (1)	BDL(1.0)	BDL(1.0)	BDL(1.0)	BDL(1.0)	1.4 J	BDL(1.0)	BDL(1.0)	BDL(1.0)	0.33 J	
Polynuclear Aromatic Hydrocarbons (PAHs) (µg/L)														
Acenaphthene	9/6/2018 & 9/13/2018	420	NS	NS	BDL(0.1)	0.12	BDL(0.1)	BDL(0.1)	4.5	BDL(0.1)	BDL(0.1)	3.8	4.2	
Fluoranthene	9/6/2018 & 9/13/2018	280	NS	NS	BDL(0.1)	BDL(0.1)	BDL(0.1)	BDL(0.1)	0.39	BDL(0.1)	BDL(0.1)	2.6	2.7	
Naphthalene	9/6/2018 & 9/13/2018	100	1,700	NS	BDL(0.1)	4.6	BDL(0.1)	BDL(0.1)	5	0.1	BDL(0.1)	BDL(0.1)	45	
Benzo[a]anthracene	9/6/2018 & 9/13/2018	0.1	NS	NS	BDL(0.1)	BDL(0.1)	BDL(0.1)	BDL(0.1)	0.02 J	BDL(0.1)	BDL(0.1)	0.09 J	0.1	
Benzo[b]fluoranthene	9/6/2018 & 9/13/2018	0.1	NS	NS	BDL(0.1)	BDL(0.1)	BDL(0.1)	BDL(0.1)	BDL(0.1)	BDL(0.1)	BDL(0.1)	0.02 J	0.03 J	
Chrysene	9/6/2018 & 9/13/2018	5	NS	NS	BDL(0.1)	BDL(0.1)	BDL(0.1)	BDL(0.1)	BDL(0.1)	BDL(0.1)	BDL(0.1)	0.09	0.1 J	
Acenaphthylene	9/6/2018 & 9/13/2018	420	NS	NS	BDL(0.1)	0.39	BDL(0.1)	BDL(0.1)	4.4	BDL(0.1)	BDL(0.1)	3.5	5.1	
Anthracene	9/6/2018 & 9/13/2018	2,100	NS	NS	BDL(0.1)	0.08 J	BDL(0.1)	BDL(0.1)	0.14	BDL(0.1)	BDL(0.1)	1.8	2.5	
Fluorene	9/6/2018 & 9/13/2018	280	NS	NS	BDL(0.1)	0.04 J	BDL(0.1)	BDL(0.1)	1.6	BDL(0.1)	BDL(0.1)	10	12	
Phenanthrene	9/6/2018 & 9/13/2018	210	NS	NS	BDL(0.1)	0.02 J	BDL(0.1)	BDL(0.1)	BDL(0.1)	BDL(0.1)	BDL(0.1)	12	20	
Pyrene	9/6/2018 & 9/13/2018	210	NS	NS	BDL(0.1)	BDL(0.1)	BDL(0.1)	BDL(0.1)	0.3	BDL(0.1)	BDL(0.1)	1.9	1.9	
1-Methylnaphthalene	9/6/2018 & 9/13/2018	160	NS	NS	BDL(0.1)	0.99	BDL(0.1)	BDL(0.1)	7.3	0.08 J	BDL(0.1)	11	19	
2-Methylnaphthalene	9/6/2018 & 9/13/2018	280	NS	NS	BDL(0.1)	0.51	BDL(0.1)	BDL(0.1)	3.2	0.05 J	BDL(0.1)	2.6	18	
1-4,Dioxane	9/6/2018 & 9/13/2018	0.32	NS	NS	BDL(0.144)	BDL(0.139)	BDL(0.144)	BDL(0.144)	NA	BDL(0.144)	NA	BDL(0.144)	BDL(0.144)	
Per- and Poly-Fluorinated Alkyl Substances (PFAS) (µg/L)														
Perfluorobutanoic Acid (PFBA)	9/6/2018	NS	NS	NS	NA	0.00246	0.00611	NA	NA	NA	NA	NA	0.00628	BDL(0.000178)
Perfluoropentanoic Acid (PFPeA)	9/6/2018	NS	NS	NS	NA	0.00191	0.00327	NA	NA	NA	NA	NA	0.00316	BDL(0.000178)
Perfluorobutanesulfonic Acid (PFBS)	9/6/2018	NS	NS	NS	NA	0.00134 J	0.00117 J	NA	NA	NA	NA	NA	0.0013 J	BDL(0.000178)
Perfluorohexanoic Acid (PFHxA)	9/6/2018	NS	NS	NS	NA	0.00219	0.00393	NA	NA	NA	NA	NA	0.00397	BDL(0.000178)
Perfluoroheptanoic Acid (PFHpA)	9/6/2018	NS	NS	NS	NA	0.00204	0.00225	NA	NA	NA	NA	NA	0.00238	BDL(0.000178)
Perfluorohexanesulfonic Acid (PFHxS)	9/6/2018	NS	NS	NS	NA	0.00646	0.000925 J	NA	NA	NA	NA	NA	0.000889 J	BDL(0.000178)
Perfluorooctanoic Acid (PFOA)	9/6/2018	0.070 (1)	NS	NS	NA	0.00623	0.004	NA	NA	NA	NA	NA	0.00445	BDL(0.000178)
Perfluorononanoic Acid (PFNA)	9/6/2018	NS	NS	NS	NA	0.000449 J	0.000968 J	NA	NA	NA	NA	NA	0.00105 J	BDL(0.000178)
Perfluorooctane sulfonate (PFOS)	9/6/2018	0.070 (1)	NS	NS	NA	0.013	0.00628	NA	NA	NA	NA	NA	0.00481	0.000375 J
Total Cyanide (µg/L)														
Cyanide	9/6/2018 & 9/13/2018	200	NS	200	15	**512**	16	7	NA	BDL(5)	NA	BDL(5)	BDL(5)	
Total Sulfate							Concentrations in µg/L							
Sulfate	9/6/2018 & 9/13/2018	500,000	NS	NS	38,000	37,000	22,000	160,000	NA	7,900 J	NA	BD(10,000)	BD(10,000)	
Dissolved Metals							Concentrations in µg/L							
Antimony	9/6/2018	6	NS	6	0.49 J	BDL(4.0)	1.68 J	BDL(4.0)	NA	BDL(4.0)	BDL(4.0)	BDL(4.0)	BDL(4.0)	
Arsenic	9/6/2018	10	NS	10	4 J	2 J	BDL(5)	BDL(5)	NA	5 J	BDL(5)	10	9	
Berylium	9/6/2018	4	NS	4	BDL(5)	BDL(5)	BDL(5)	BDL(5)	NA	BDL(5)	BDL(5)	BDL(5)	BDL(5)	
Cadmium	9/6/2018	5	NS	5	3 J	2 J	BDL(5)	2 J	NA	BDL(5)	1 J	BDL(5)	BDL(5)	
Chromium	9/6/2018	100	NS	100	BDL(10)	BDL(10)	BDL(10)	BDL(10)	NA	BDL(10)	BDL(10)	3 J	2 J	
Copper	9/6/2018	1,300	NS	1,300	BDL(10)	26	BDL(10)	BDL(10)	NA	BDL(10)	BDL(10)	BDL(10)	BDL(10)	
Lead	9/6/2018	15	NS	15	BDL(10)	BDL(10)	BDL(10)	BDL(10)	NA	BDL(10)	BDL(10)	BDL(10)	BDL(10)	
Mercury	9/6/2018	2	NS	2	BDL(0.20)	BDL(0.20)	BDL(0.20)	BDL(0.20)	NA	BDL(0.20)	BDL(0.20)	BDL(0.20)	BDL(0.20)	
Nickel	9/6/2018	100	NS	NS	BDL(25)	BDL(25)	BDL(25)	BDL(25)	NA	3 J	11 J	BDL(25)	BDL(25)	
Selenium	9/6/2018	50	NS	50	BDL(10)	BDL(10)	BDL(10)	BDL(10)	NA	BDL(10)	BDL(10)	BDL(10)	BDL(10)	
Silver	9/6/2018	100	NS	100 (2)	BDL(7)	BDL(7)	BDL(7)	BDL(7)	NA	BDL(7)	BDL(7)	BDL(7)	BDL(7)	
Thallium	9/6/2018	2	NS	2	BDL(0.50)	BDL(0.50)	BDL(0.50)	BDL(0.50)	NA	BDL(0.50)	BDL(0.50)	BDL(0.50)	BDL(0.50)	
Zinc	9/6/2018	NS	NS	5,000 (2)	BDL(50)	21 J	BDL(50)	2 J	NA	BDL(50)	23 J	BDL(50)	BDL(50)	

Legend:

NS=No Standard
µg/L = micrograms per liter
NA=No Analyzed
BDL( ) = Below laboratory detection limit shown in parenthesis
QA/QC = quality assurance/quality control sample
J = estimated concentration detected above laboratory detection limit, but below laboratory reporting limit

Notes:

1 - AGQS is for total xylenes (mixed isomers); AGQS is for total PFOA and PFOS.
2 - MCL not established; value listed in table is the National Secondary Drinking Water Regulation (pertaining to cosmetic or aesthetic effects in drinking water).
3 - NH DES Env-Or 600 Ambient Groundwater Quality Standards (AGQSs), updated September 1, 2018.
4 - US EPA Maximum Contaminant Levels (MCLs), updated November 2018. Standards for silver and zinc are from National Secondary Drinking Water Regulations.
5 - **Bold** type font and boxed value indicates concentration exceeds the NH DES AGQS. Yellow shaded AGQS: AGQS lower than the detection limit.

TABLE 6. SUMMARY OF DUPLICATE SOIL SAMPLE ANALYTICAL RESULTS
W.W. Cross Property
Jaffrewy, New Hampshire

Area of Concern	Samples								Relative Percent Difference
Sample Location	B2-S3	13PPM-DUP	B2-S4	VOC-DUP2	B18-S3	TCN-DUP	B26-S3	PAH & TPH-DUP	
Sample Depth (feet bgs)	5.0-7.5	5.0-7.5	7.5-9.0	7.5-8.5	5.0-7.5	5.0-7.5	5.0-7.5	5.0-7.5	
Sample Date	8/17/2018	8/17/2018	8/17/2018	8/17/2018	8/15/2018	8/15/2018	8/16/2018	9/13/2018	
Volatile Organic Compounds (VOCs) (mg/kg)									%
Methylene chloride			BDL(0.0026)	BDL(0.0019)					NC
Tetrachloroethene			BDL(0.00026)	BDL(0.00016)					NC
Chlorobenzene			BDL(0.00026)	BDL(0.00010)					NC
Trichloroethene			BDL(0.00026)	BDL(0.00011)					NC
1,2-Dichlorobenzene			BDL(0.0010)	BDL(0.00012)					NC
1,3-Dichlorobenzene			BDL(0.0010)	BDL(0.00012)					NC
1,4-Dichlorobenzene			BDL(0.0010)	BDL(0.00014)					NC
Benzene			BDL(0.00026)	BDL(0.00014)					NC
Toluene			BDL(0.00052)	BDL(0.00045)					NC
Ethylbenzene			BDL(0.00052)	BDL(0.00012)					NC
p/m-Xylene			BDL(0.0010)	BDL(0.00046)					NC
o-Xylene			BDL(0.00052)	BDL(0.00024)					NC
Xylenes, Total			BDL(0.00052)	BDL(0.00024)					NC
Styrene			BDL(0.00052)	BDL(0.00016)					NC
Acetone			0.0052	BDL(0.0040)					NC
n-Butylbenzene			BDL(0.00052)	BDL(0.00014)					NC
Isopropylbenzene			BDL(0.00052)	BDL(0.00009)					NC
p-Isopropyltoluene			BDL(0.00052)	BDL(0.00009)					NC
Naphthalene			BDL(0.0021)	BDL(0.00054)					NC
n-Propylbenzene			BDL(0.00052)	BDL(0.00014)					NC
1,3,5-Trimethylbenzene			BDL(0.0010)	BDL(0.00016)					NC
1,2,4-Trimethylbenzene			BDL(0.0010)	BDL(0.00022)					NC
Polynuclear Aromatic Hydrocarbons (PAHs) (mg/kg)									%
Acenaphthene							0.9	1.80	67
2-Chloronaphthalene							BDL(0.22)	BDL(0.042)	NC
Fluoranthene							16	28	55
Naphthalene							7.8	15.0	63
Benzo[a]anthracene							5.1	9.3	58
Benzo[a]pyrene							4	6.3	45
Benzo[b]fluoranthene							5.3	8.5	46
Benzo[k]fluoranthene							1.9	2.9	42
Chrysene							4.8	8.9	60
Acenaphthylene							2.8	5.70	68
Anthracene							3.8	7.2	62
Benzo(g,h,i)perylene							2.5	4	46
Fluorene							4.3	8.6	67
Phenanthrene							22	41	60
Dibenzo[a,h]anthracene							0.62	1	47
Indeno[1,2,3-cd]pyrene							2.6	4.4	51
Pyrene							13	24	59
1-Methylnaphthalene							3.5	7.1	68
2-Methylnaphthalene							4.4	8.8	67
Total Cyanide (mg/kg)									%
Cyanide					BDL(1.2)	BDL(1.1)			
Total Petroleum Hydrocarbons-Diesel Range Organics (TPH-DRO) (mg/kg)									%
TPH-DRO							1,750	585	100
Metals (mg/kg)									%
Antimony	0.668 J	0.687 J							NC
Arsenic	7.2	7.52							4
Beryllium	0.33	0.315							5
Cadmium	253	159							46
Chromium, Total	8.4	7.93							6
Copper	128	173							30
Lead	2.9	3.0							3
Mercury	BDL(0.07)	BDL(0.079)							NC
Nickel	5.01	4.94							1
Selenium	BDL(0.868)	BDL(0.954)							NC
Silver	BDL(0.434)	BDL(0.477)							NC
Thallium	BDL(0.868)	BDL(0.954)							NC
Zinc	302	334							10

Legend:
mg/kg = milligrams per kilogram
BDL( ) = Below laboratory detection limit shown in parenthesis
J = estimated concentration detected above laboratory detection limit, but below laboratory reporting limit

NOTES:
1 - NH DES Env-Or 600 Soil Remediation Standards, updated September 1, 2018.
2 - NHDES Risk Characerization Management Policy (RCMP) standards were updated February 2013.
3 - US EPA Regional Screening Levels, updated November 2018, Total Hazard Quotient = 1.
4 - Bold type font and boxed value indicates concentration exceeds the NH DES SRS.
5 - Xylenes SRS listed are for total xylenes (mixed isomers). Total chromium SRS shown is for "worst case" hexavalent chromium.
6 - Concentration values shaded orange indicate RCMP Method 1, NH S-3 standard is exceeded.
7 - Relative percent difference not calculated if the detected concentration is less than 5x the laboratory reporting limit (not calculated: NC).

TABLE 7. SUMMARY OF DUPLICATE CONCRETE SAMPLE LABORATORY ANALYTICAL RESULTS
W.W. Cross Property
Jaffrey, New Hampshire

Sample Location	Samples		Relative Percent Difference
	CS-1 [B1]	CS-DUP3 [B1]	
Sample Date	8/15/2018	8/15/2018	
Metals (mg/kg)			%
Antimony	0.564 J	0.483 J	NC
Arsenic	4.14	3.92	5
Beryllium	0.174 J	0.166 J	NC
Cadmium	BDL(0.406)	BDL(0.416)	NC
Chromium, Total	14	13.6	3
Chromium, Hexavalent			NC
Chromium, Trivalent			NC
Copper	9	9.5	1
Lead	2.74	2.9	NC
Mercury	BDL(0.067)	BDL(0.069)	NC
Nickel	7.42	7.32	1
Selenium	0.219 J	0.312 J	NC
Silver	BDL(0.406)	BDL(0.416)	NC
Thallium	BDL(0.811)	BDL(0.832)	NC
Zinc	19.4	19.9	3
Polychlorinated Biphenyls (PCBs) (mg/kg)			%
Total PCBs	BDL(0.0201-0.0604)	BDL(0.0207-0.0620)	NC

Notes:
1 - mg/kg = milligrams per kilogram.
2 - BDL( ) = Below method detection limit shown in parenthesis.
3 - Relative percent difference not calculated if the detected concentration is less than 5x the laboratory reporting limit (not calculated: NC).

TABLE 8. SUMMARY OF DUPLICATE GROUNDWATER S SUMMARY OF DUPLICATE GROUNDWATER SAMPLE ANALYTICAL RESULTS
W.W. Cross Property
Jaffrey, New Hampshire

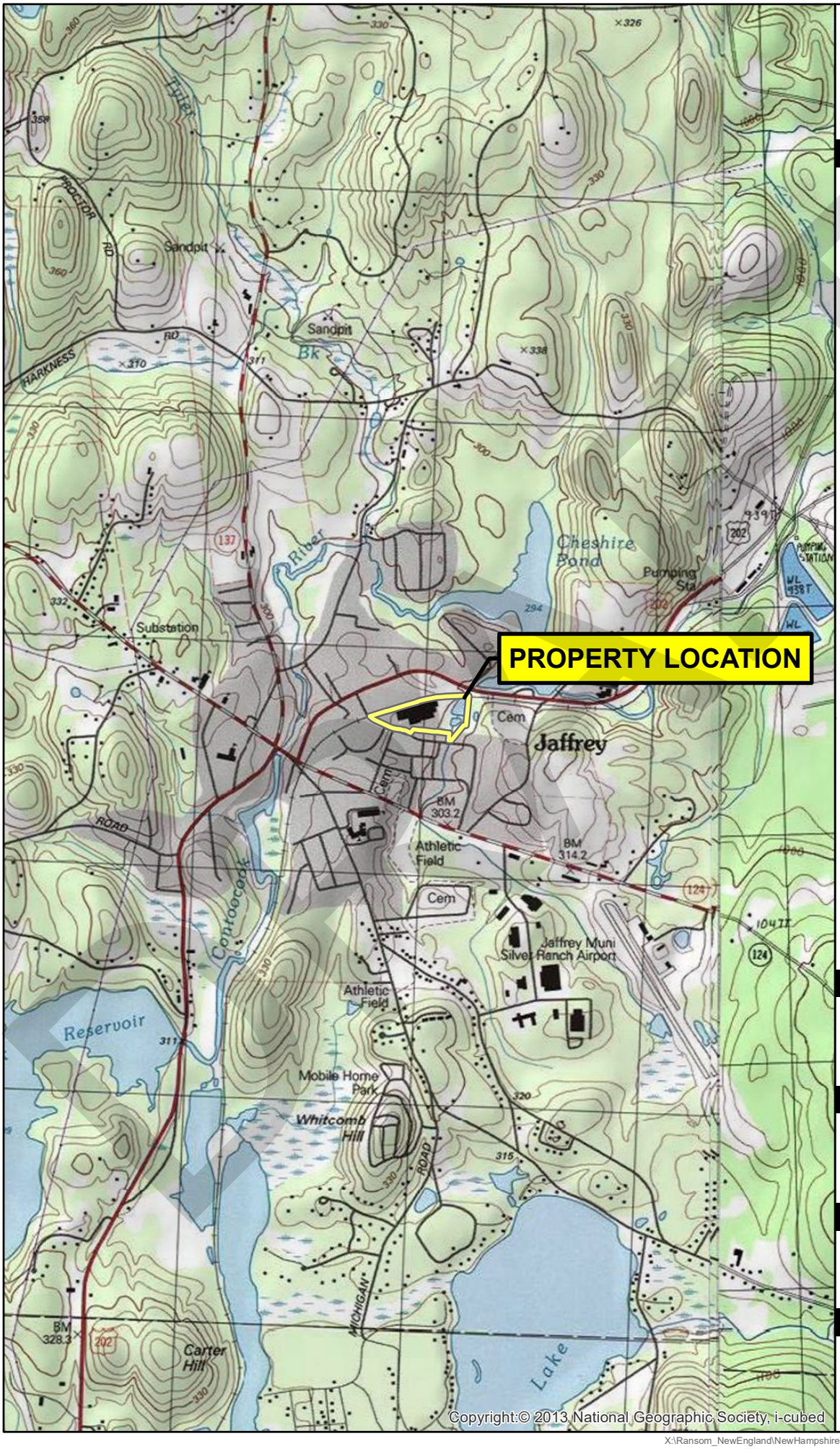
	Samples				Relative Percent Difference
LOCATION	MW103	PFAS-DUP	MW108	GW-DUP	
Sampling Date	9/6/2018		9/6/2018	9/6/2018	
Volatile Organic Compounds (VOCs) (µg/L)					%
Acetone			BDL(5.0)	BDL(5.0)	NC
Benzene			BDL(0.50)	BDL(0.50)	NC
t-Butyl alcohol (TBA)			BDL(10)	BDL(10)	NC
Carbon Disulfide			BDL(5.0)	BDL(5.0)	NC
Chlorobenzene (Monochlorobenzene)			BDL(0.50)	BDL(0.50)	NC
Chloromethane (Methyl Chloride)			BDL(2.5)	BDL(2.5)	NC
2-Chlorotoluene			BDL(2.5)	BDL(2.5)	NC
4-Chlorotoluene			BDL(2.5)	BDL(2.5)	NC
cis-1,3-Dichloropropene			BDL(2.5)	BDL(2.5)	NC
1,2-Dibromo-3-chloropropane (Dibromochloropropane)			BDL(2.5)	BDL(2.5)	NC
Dibromochloromethane			BDL(2.5)	BDL(2.5)	NC
1,2-Dibromoethane (Ethylene Dibromide, EDB)			BDL(2.5)	BDL(2.5)	NC
Dibromomethane			BDL(2.5)	BDL(2.5)	NC
1,2-Dichlorobenzene			BDL(2.5)	BDL(2.5)	NC
1,3-Dichlorobenzene			BDL(2.5)	BDL(2.5)	NC
1,4-Dichlorobenzene			BDL(2.5)	BDL(2.5)	NC
Dichlorodifluoromethane			BDL(2.5)	BDL(5.0)	NC
1,1-Dichloroethane			BDL(2.5)	BDL(0.75)	NC
1,2-Dichloroethane			BDL(2.5)	BDL(0.50)	NC
1,1-Dichloroethene (1,1-Dochloroethylene)			BDL(2.5)	BDL(0.50)	NC
cis-1,2-Dichloroethene			0.5 J	0.46 J	NC
Ethylbenzene			BDL(0.50)	BDL(0.50)	NC
p-Isopropyltoluene			BDL(0.50)	BDL(0.50)	NC
Methyl ethyl ketone (2-Butanone)			BDL(5.0)	BDL(5.0)	NC
Methyl isobutyl ketone (4-Methyl-2-pentanone)			BDL(5.0)	BDL(5.0)	NC
Naphthalene			**180**	**180**	0
n-Propylbenzene			BDL(0.50)	BDL(0.50)	NC
Tetrachloroethene			BDL(0.50)	BDL(0.50)	NC
Toluene			BDL(0.75)	BDL(0.75)	NC
Trichloroethene			0.33 J	0.33 J	NC
1,2,4-Trimethylbenzene			1 J	1 J	NC
1,3,5-Trimethylbenzene			0.38 J	0.36 J	NC
o-Xylene			BDL(1.0)	BDL(1.0)	NC
p/m-Xylene			BDL(1.0)	0.33 J	NC
Total Xylene			BDL(1.0)	0.33 J	NC
Polynuclear Aromatic Hydrocarbons (PAHs) (µg/L)					%
Acenaphthene			3.8	4.2	10
Fluoranthene			2.6	2.7	4
Naphthalene			BDL(0.1)	45	NC
Benzo[a]anthracene			0.09 J	0.1	NC
Benzo[b]fluoranthene			0.02 J	0.03 J	NC
Chrysene			0.09	0.1 J	NC
Acenaphthylene			3.5	5.1	37
Anthracene			1.8	2.5	33
Fluorene			10	12	18
Phenanthrene			12	20	50
Pyrene			1.9	1.9	0
1-Methylnaphthalene			11	19	53
2-Methylnaphthalene			2.6	18	150
1-4,Dioxane			BDL(0.144)	BDL(0.144)	NC
Per- and Poly-Fluorinated Alkyl Substances (PFAS) (µg/L)					%
Perfluorobutanoic Acid (PFBA)	0.00611	0.00628			3
Perfluoropentanoic Acid (PFPeA)	0.00327	0.00316			NC
Perfluorobutanesulfonic Acid (PFBS)	0.00117 J	0.0013 J			NC
Perfluorohexanoic Acid (PFHxA)	0.00393	0.00397			NC
Perfluoroheptanoic Acid (PFHpA)	0.00225	0.00238			NC
Perfluorohexanesulfonic Acid (PFHxS)	0.000925 J	0.000889 J			NC
Perfluorooctanoic Acid (PFOA)	0.004	0.00445			NC
Perfluorononanoic Acid (PFNA)	0.000968 J	0.00105 J			NC
Perfluorooctane sulfonate (PFOS)	0.00628	0.00481			NC
Total Cyanide (µg/L)					%
Cyanide			BDL(5)	BDL(5)	
Total Sulfate (µg/L)					%
Sulfate			BD(10,000)	BD(10,000)	
Dissolved Metals (µg/L)					%
Antimony			BDL(4.0)	BDL(4.0)	NC
Arsenic			10	9	NC
Berylium			BDL(5)	BDL(5)	NC
Cadmium			BDL(5)	BDL(5)	NC
Chromium			3 J	2 J	NC
Copper			BDL(10)	BDL(10)	NC
Lead			BDL(10)	BDL(10)	NC
Mercury			BDL(0.20)	BDL(0.20)	NC
Nickel			BDL(25)	BDL(25)	NC
Selenium			BDL(10)	BDL(10)	NC
Silver			BDL(7)	BDL(7)	NC
Thallium			BDL(0.50)	BDL(0.50)	NC
Zinc			BDL(50)	BDL(50)	NC

Legend:

NS=No Standard
µg/L = micrograms per liter
BDL( ) = Below laboratory detection limit shown in parenthesis

Notes:

1 - AGQS is for total xylenes (mixed isomers); AGQS is for total PFOA and PFOS.
2 - MCL not established; value listed in table is the National Secondary Drinking Water Regulation (pertaining to cosmetic or aesthetic effects in drinking water).
3 - NH DES Env-Or 600 Ambient Groundwater Quality Standards (AGQSs), updated June 1, 2015.
4 - US EPA Maximum Contaminant Levels (MCLs), updated May 2016. Standards for silver and zinc are from National Secondary Drinking Water Regulations.
5 - **Bold** type font and boxed value indicates concentration exceeds the NH DES AGQS.
6 - Relative percent difference not calculated if the detected concentration is less than 5x the laboratory reporting limit (not calculted: NC).



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Regional Locator Map

Notes

1. Data Source: USGS National Map Seamless Server, 24K DRG, 1/3" NED
2. USGS Quad Name: Monadnock Mountain
3. Latitude: 42° 48' 58" N
   Longitude: 72° 0' 56" W
   UTM Northing: 4744716 mN
   UTM Easting: 743972 mE

Scale and Orientation

0 1,000 2,000

1 inch = 2,000 feet

Prepared For

Southwest Region
Planning Commission
37 Ashuelot Street
Keene, New Hampshire

Site Address

W.W. Cross Property
39 Webster Street
Jaffrey, New Hampshire

141.05051	Dec 2018

Figure 1

Site Location Map

X:\Ransom_NewEngland\NewHampshire\Jaffrey_NH\WW_Cross\WWCP_Jaffrey-F1_SLM.mxd

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Legend & Notes

- Approximate Property Boundary
- Approximate Site Boundary
- Groundwater Management Zone
- Former Underground Storage Tank (Approx.)
- Monitoring Well
- Pre-Existing Monitoring Well
- Piezometer
- Surface Water Sample Location
- Arbitrary Benchmark (100' Elev)

Notes

1. Site Plan based on National Agricultural Imagery Program Orthophotography
2. Some features are approximate in location and scale
3. This plan has been prepared for Southwest Region Planning Commission. All other uses are not authorized unless written permission is obtained from Ransom Consulting, Inc.

Scale & Orientation

0 60 120

1 inch = 120 feet

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Jaffrey, New Hampshire

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Figure 2

Site Area Plan

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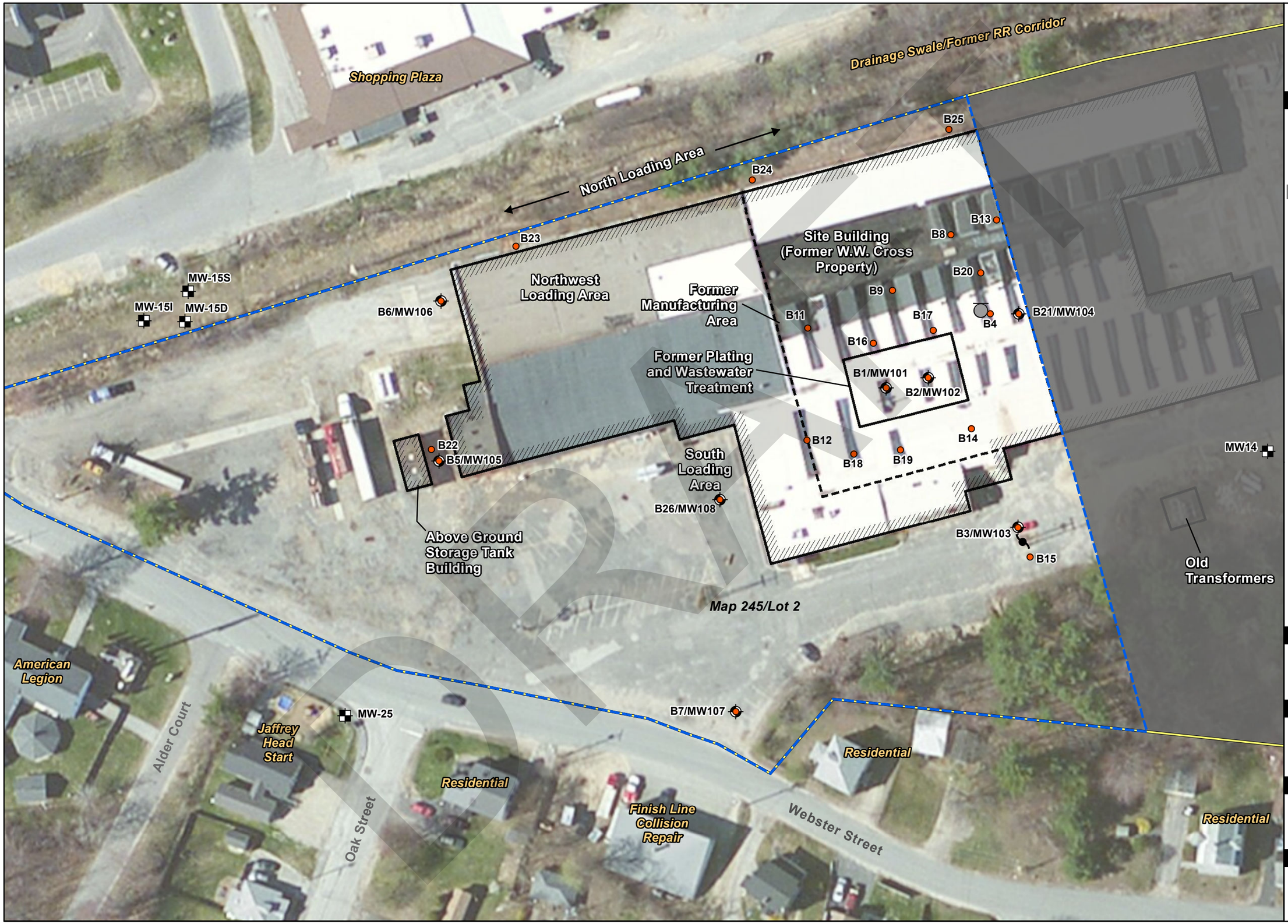

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Legend & Notes

- Approximate Property Boundary
- Approximate Site Boundary
- Groundwater Management Zone
- Former Underground Storage Tank (Approx.)
- Monitoring Well
- Pre-Existing Monitoring Well
- Soil Boring
- Arbitrary Benchmark (100' Elev)

Notes

1. Site Plan based on National Agricultural Imagery Program Orthophotography.
2. Some features are approximate in location and scale.
3. This plan has been prepared for Southwest Region Planning Commission. All other uses are not authorized unless written permission is obtained from Ransom Consulting, Inc.

Scale & Orientation

0 30 60

1 inch = 60 feet

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Figure 3
Site Plan

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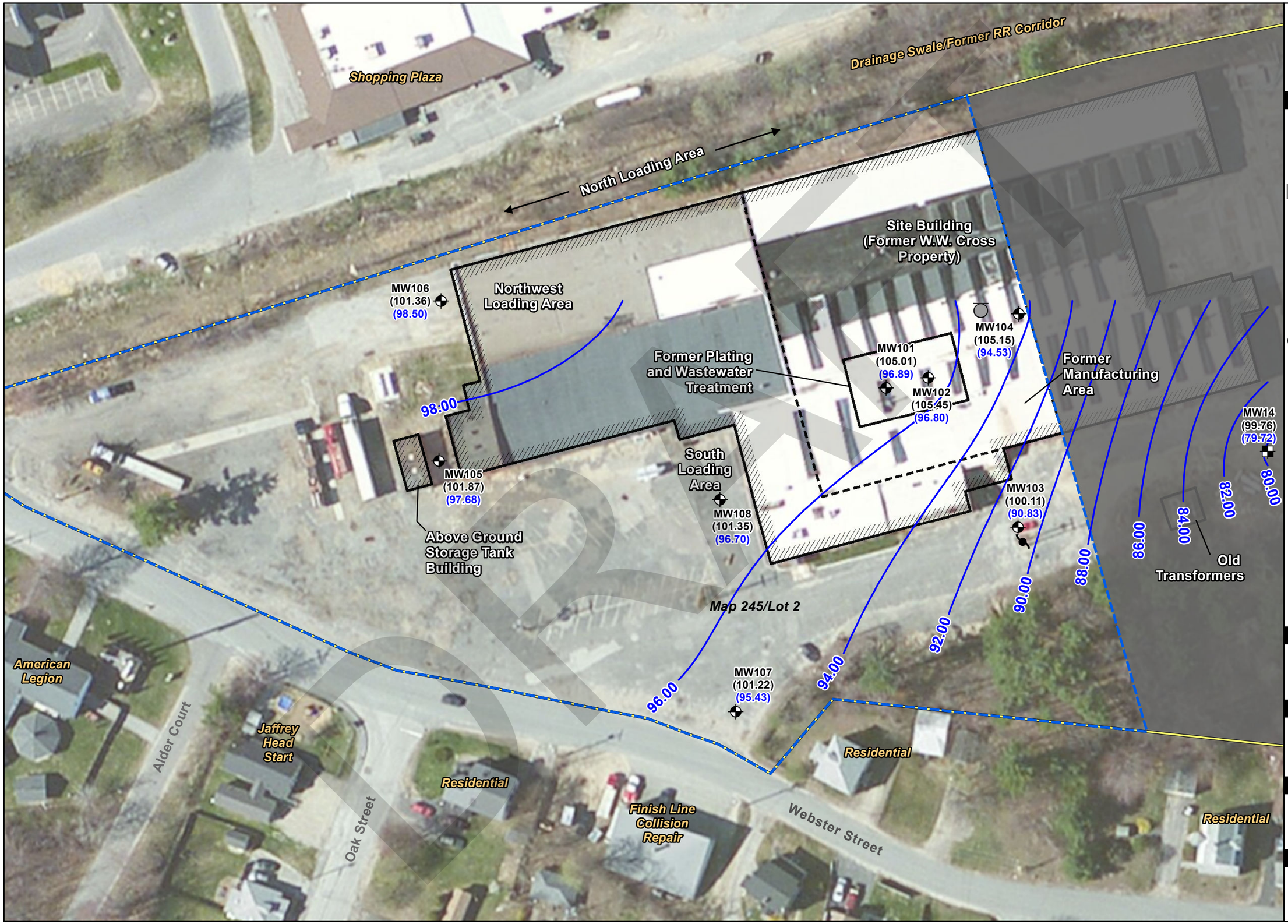

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Legend & Notes

- Approximate Property Boundary
- Approximate Site Boundary
- Groundwater Management Zone
- Former Underground Storage Tank (Approx.)
- Monitoring Well
- Pre-Existing Monitoring Well
- Arbitrary Benchmark (100' Elev)
- (101.35) Top of PVC Elevation
- (96.70) Groundwater Elevation

Notes

1. Site Plan based on National Agricultural Imagery Program Orthophotography.
2. Some features are approximate in location and scale.
3. Exact locations of proposed borings will be refined based on site physical constraints and other factors.
4. This plan has been prepared for Southwest Region Planning Commission. All other uses are not authorized unless written permission is obtained from Ransom Consulting, Inc.

Scale & Orientation

0 30 60

1 inch = 60 feet

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Figure 4

Inferred Groundwater Flow Map
(September 6, 2018)

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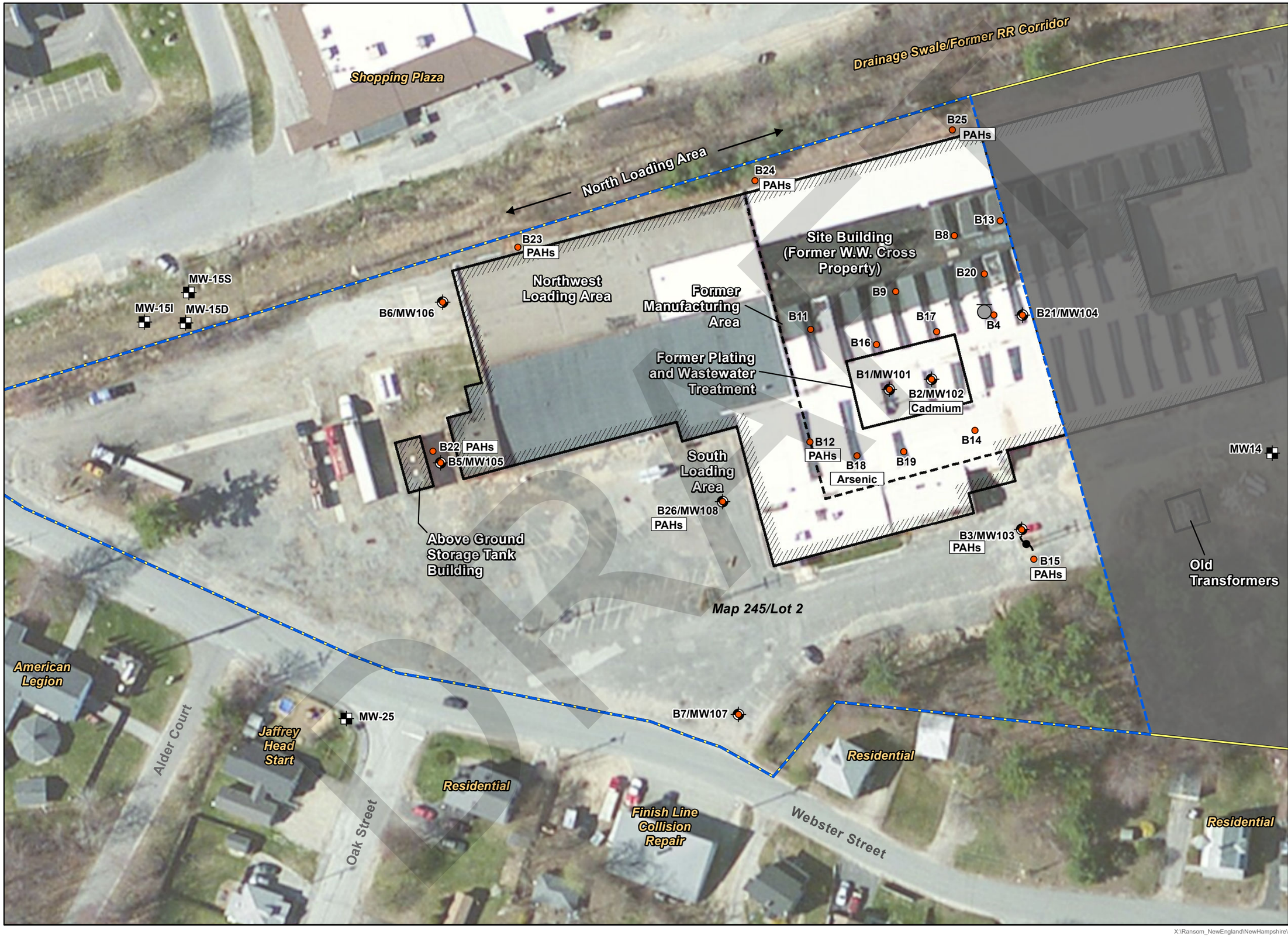

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Legend & Notes

- Approximate Property Boundary
- Approximate Site Boundary
- Groundwater Management Zone
- Former Underground Storage Tank (Approx.)
- Monitoring Well
- Pre-Existing Monitoring Well
- Soil Boring
- Arbitrary Benchmark (100' Elev)
- PAHs — Contaminant Exceeding Env-Or 600 Soil Remediation Standard

Notes

1. Site Plan based on National Agricultural Imagery Program Orthophotography.
2. Some features are approximate in location and scale.
3. This plan has been prepared for Southwest Region Planning Commission. All other uses are not authorized unless written permission is obtained from Ransom Consulting, Inc.

Scale & Orientation

0 30 60

1 inch = 60 feet

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Figure 5
Soil Contaminant Distribution Map

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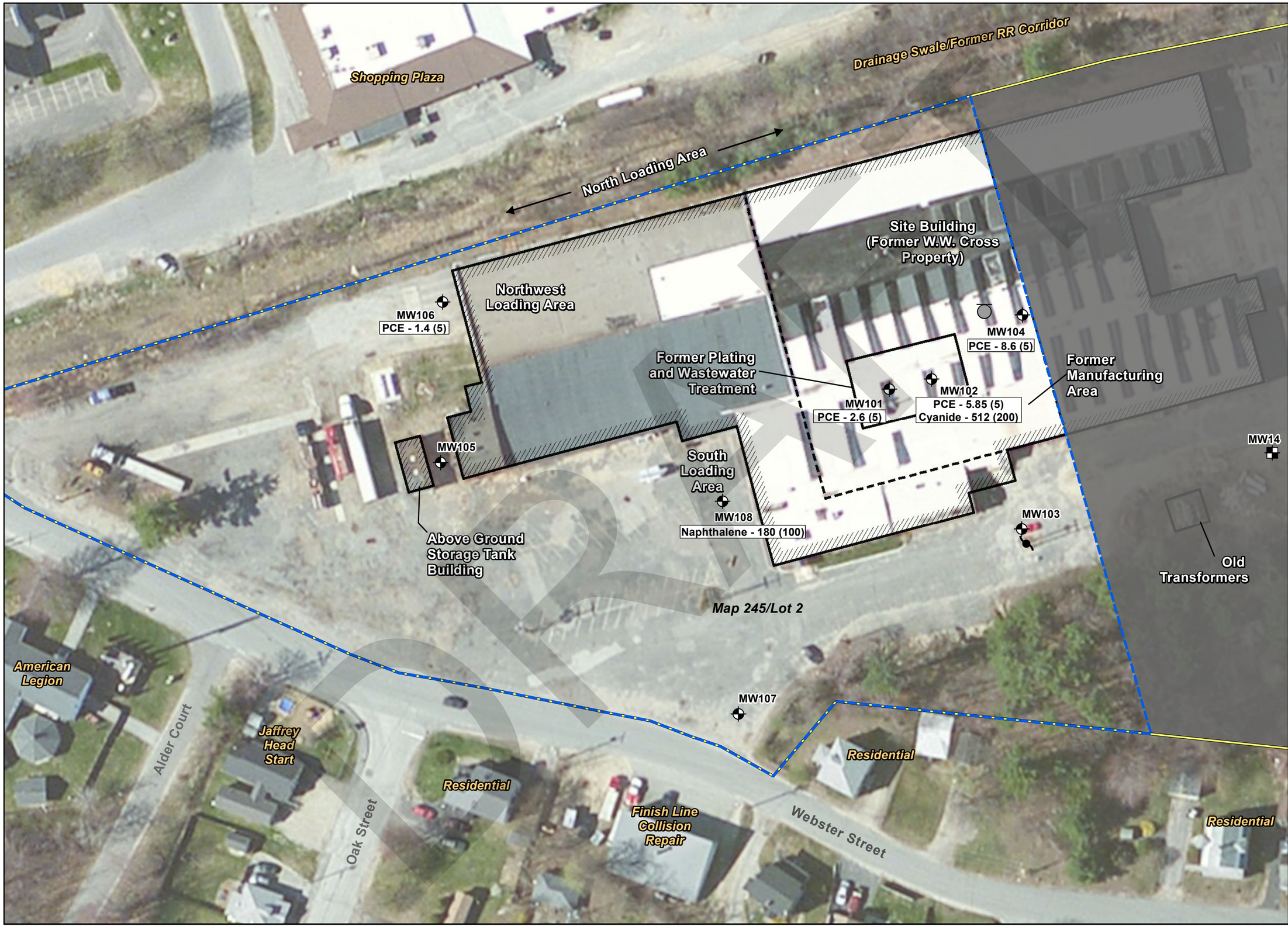

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Legend & Notes

- Approximate Property Boundary
- Approximate Site Boundary
- Groundwater Management Zone
- Former Underground Storage Tank (Approx.)
- Monitoring Well
- Pre-Existing Monitoring Well
- Arbitrary Benchmark (100' Elev)
- PCE — Groundwater Contaminants of Concern
- 8.6 — Concentration Detected (µg/L)
- (5) — AGQS

Notes

1. Site Plan based on National Agricultural Imagery Program Orthophotography.
2. Some features are approximate in location and scale.
3. Exact locations of proposed borings will be refined based on site physical constraints and other factors.
4. This plan has been prepared for Southwest Region Planning Commission. All other uses are not authorized unless written permission is obtained from Ransom Consulting, Inc.

Scale & Orientation

0 30 60

1 inch = 60 feet

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Figure 6
Dissolved Contaminant Distribution Map

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APPENDIX A

Soil Boring/Monitoring Well Logs and Groundwater Sampling Logs

Phase II Environmental Site Assessment
W. W. Cross Property
39 Webster Street
Jaffrey, New Hampshire

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BORING AND MONITORING WELL LOG: B1/MW101

Reviewed by:	CATZ	Total Depth:	12 Feet	Logged By:	BAB
Date Reviewed:	12/13/2018	Boring Diameter:	8 1/2 Inches	Date Drilled:	8/15/18 to 8/15/18
GW Observed at:	8 Feet	Well Stickup:	Flush	Driller:	EAI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppm)
0	S1 & S2 (0-5') 5" CONCRETE over 21" brown/gray, fine to medium SAND, some fine to medium gravel, trace to little silt, moist.		S1			<1
				NA	60/26	
			S2			<1
5	S3 (5-7.5') Dense, gray/brown, fine to medium SAND, little fine to medium gravel, little silt, moist.		S3			<1
	S4 (7.5-10') Dense, red/brown, fine to medium SAND, little fine to medium gravel, little silt, moist to wet.			NA	60/36	
			S4			<1
10	Augered to 12' bgs.					
	End of boring 12'.					
15						

DEPTH	WELL CONSTRUCTION
0	
5	
10	
15	

LEGEND: Filter Sand; Native Fill; Bentonite; Bentonite Grout; Concrete; PVC Screen; Solid PVC Riser

NOTES:
1. Boring advanced with hollow-stem augers; soil samples collected via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. Boring completed as 2" PVC monitoring well with flush-mounted roadbox.
5. NA=Not applicable.

CLIENT:
SWRPC

SITE:
W. W. Cross Property
39 Webster Street
Jaffrey, NH

Project No.: 141.05051.010

Page: 1

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BORING AND MONITORING WELL LOG: B2/MW102

Reviewed by:	CRT	Total Depth:	9 1/2 Feet	Logged By:	BAB
Date Reviewed:	12/13/2018	Boring Diameter:	8 1/2 Inches	Date Drilled:	8/17/18 to 8/15/18
GW Observed at:	8 Feet	Well Stickup:	Flush	Driller:	EAI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppm)
0	S1 & S2 (0-5') 5" CONCRETE over 6" brown, fine to medium SAND, little fine to medium gravel, little silt, red brick and concrete noted, over 22" gray/brown, fine to medium SAND, little fine to medium gravel, trace silt, moist.		S1			12
				NA	60/28	
			S2			52
5	S3 (5-7.5') 15" Gray/brown, fine to medium SAND, little fine to medium gravel, trace silt, over 6" red/brown, fine SAND, little silt, trace fine to medium gravel.		S3			94
	S4 (7.5-9') Gray/brown, fine SAND, little fine to medium gravel, little silt, cobble at 8.5-9', moist to wet. Push-probe refusal at 9'.			NA	60/42	
			S4			171
10	Auger refusal, end of boring 9.5'.					
15						

5 10 15

WELL CONSTRUCTION

LEGEND: Filter Sand; Native Fill; Bentonite; Bentonite Grout; Concrete; PVC Screen; Solid PVC Riser

NOTES:
1. Boring advanced with hollow-stem augers; soil samples collected via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. Boring completed as 2" PVC monitoring well with flush-mounted roadbox.
5. NA=Not applicable.

CLIENT:
SWRPC

SITE:
W. W. Cross Property
39 Webster Street
Jaffrey, NH

Project No.: 141.05051.010

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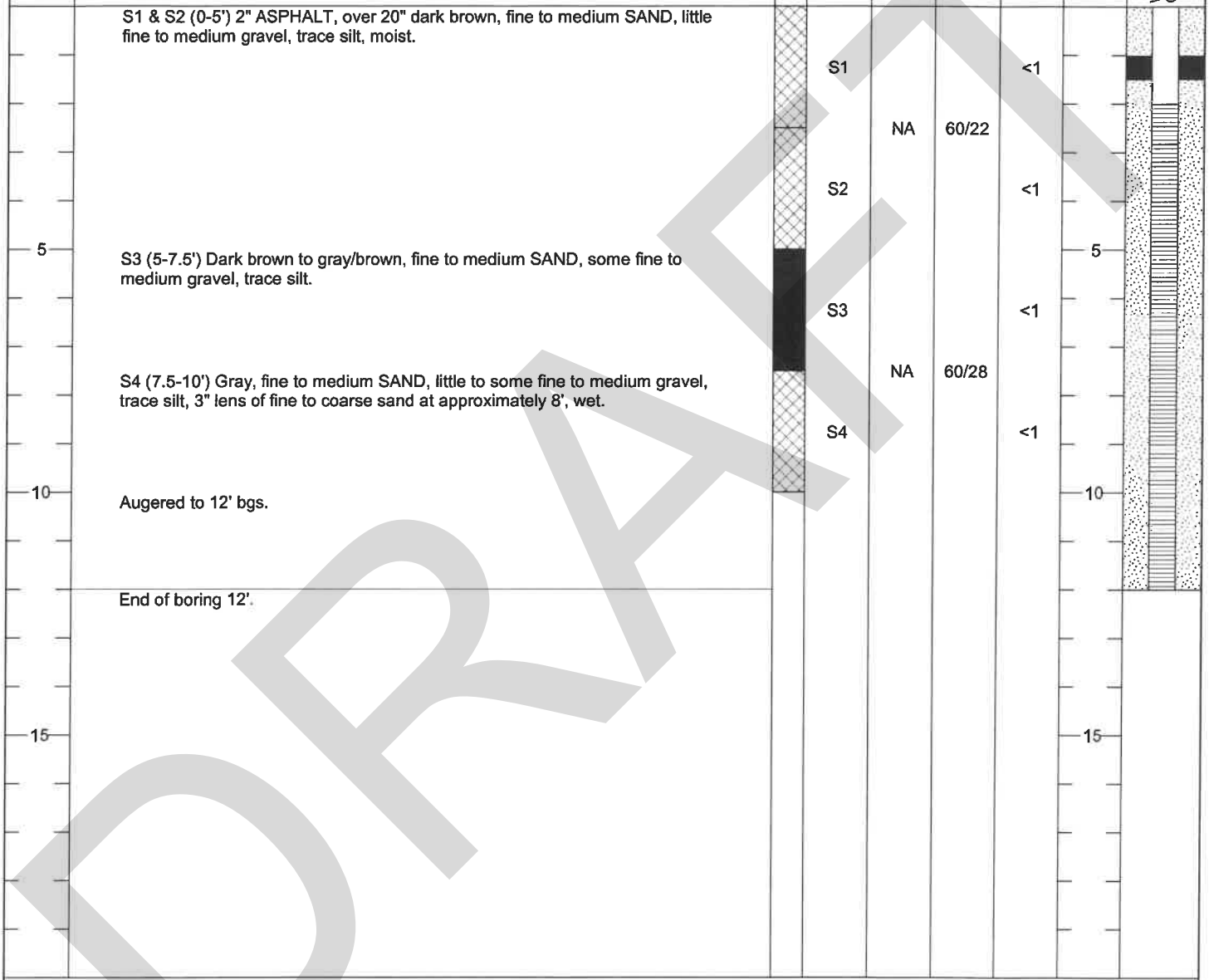
BORING AND MONITORING WELL LOG: B3/MW103

Reviewed by:	SFR	Total Depth:	12 Feet	Logged By:	BAB
Date Reviewed:	12/13/2018	Boring Diameter:	8 1/2 Inches	Date Drilled:	8/16/18 to 8/16/18
GW Observed at:	7 Feet	Well Stickup:	Flush	Driller:	EAI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppm)
0	S1 & S2 (0-5') 2" ASPHALT, over 20" dark brown, fine to medium SAND, little fine to medium gravel, trace silt, moist.		S1			<1
				NA	60/22	
			S2			<1
5	S3 (5-7.5') Dark brown to gray/brown, fine to medium SAND, some fine to medium gravel, trace silt.		S3			<1
	S4 (7.5-10') Gray, fine to medium SAND, little to some fine to medium gravel, trace silt, 3" lens of fine to coarse sand at approximately 8', wet.			NA	60/28	
			S4			<1
10	Augered to 12' bgs.					
	End of boring 12'.					
15						



LEGEND: Filter Sand; Native Fill; Bentonite; Bentonite Grout; Concrete; PVC Screen; Solid PVC Riser

NOTES:
1. Boring advanced with hollow-stem augers; soil samples collected via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. Boring completed as 2" PVC monitoring well with flush-mounted roadbox.
5. NA=Not applicable.

CLIENT:
SWRPC

SITE:
W. W. Cross Property
39 Webster Street
Jaffrey, NH

Project No.: 141.05051.010

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BORING LOG: B4

Reviewed By: SKZ		Total Depth:	8 Feet	Logged By:	BAB
Date Reviewed: 12/13/2018		Boring Diameter:	8 1/2 Inches	Date Drilled:	8/17/18 to 8/15/18
GW Observed at:	7.5 Feet	Well Stickup:	NA	Driller:	EAI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppmv)		DEPTH
	S1 & S2 (0-5') 5" CONCRETE over medium dense to dense, brown, fine to medium SAND, little fine to medium gravel, trace to little silt, moist.		S1			20		
				NA	60/46			
			S2			14		
5	S3 (5-8') Very dense, brown, fine to medium SAND, little silt, trace fine to medium gravel, cobbles at 5.5-7.75'.							5
			S3		36/24	21		
	Refusal, end of boring 8'.							
10								10
15								15

NOTES:
1. Boring advanced via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. NA=Not applicable.

CLIENT:
SWRPC

SITE:
W. W. Cross Property
39 Webster Street
Jaffrey, NH

Project No.: 141.05051.010

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BORING AND MONITORING WELL LOG: B5/MW105

Reviewed by:	SFR	Total Depth:	12.5 Feet	Logged By:	BAB
Date Reviewed:	12/13/2018	Boring Diameter:	8 1/2 Inches	Date Drilled:	8/16/18 to 8/16/18
GW Observed at:	3 Feet	Well Stickup:	Flush	Driller:	EAI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppm)
	S1(0-2.5') 4" ASPHALT, over 18" medium dense, brown, fine to medium SAND, little fine to medium gravel, trace silt, moist.		S1			<1
	S2 (2.5-5') Medium dense, brown, fine to coarse SAND, trace fine to medium gravel, trace silt, moist to wet.		S2	NA	60/22	<1
5	S3 (5-7.5') 8" Medium dense, brown, fine to coarse SAND, trace fine to medium gravel, trace silt, over 6" dense, black, fine to medium SAND, some fine to medium gravel, trace silt.		S3			2
	S4 (7.5-10') Very dense, gray, fine SAND and fine to medium GRAVEL/COBBLES, little silt, wet.		S4	NA	60/28	<1
10	S5 (10-12.5') Very dense, gray, fine SAND and fine to medium GRAVEL/COBBLES, little silt, wet.		S5		30/12	<1
	Auger refusal at 12' bgs.					
	Push-probe refusal, end of boring 12.5'.					
15						

DEPTH	WELL CONSTRUCTION
5	
10	
15	

LEGEND:

NOTES:
1. Boring advanced with hollow-stem augers; soil samples collected via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. Boring completed as 2" PVC monitoring well with flush-mounted roadbox.
5. NA=Not applicable.

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BORING AND MONITORING WELL LOG: B6/MW106

Reviewed by: SFR		Total Depth: 10 Feet		Logged By: BAB	
Date Reviewed: 12/13/2018		Boring Diameter: 8 1/2 Inches		Date Drilled: 8/16/18 to 8/16/18	
GW Observed at: 2 Feet		Well Stickup: Flush		Driller: EAI	

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppm)	DEPTH	WELL CONSTRUCTION
	S1(0-2.5') 6" ASPHALT, over 6" brown, fine to coarse SAND, little fine to medium gravel, over 8" brown/black to dark brown, fine SAND, some to little silt, organic odor, moist to wet.		S1			<1		
	S2 (2.5-5') 10" Gray/brown, fine to medium SAND, little silt, over 7" gray/brown, fine to coarse SAND, little fine to medium gravel, trace silt, wet.		S2	NA	60/38	<1		
5	S3 (5-7.5') Gray/brown to red/brown, fine to coarse SAND, little fine to medium gravel, trace silt.		S3			<1	5	
	S4 (7.5-10') 6" Gray, fine to medium GRAVEL, little fine sand and silt, over 13" gray, fractured ROCK, over 4" gray/brown, fine to medium SAND and fine to medium GRAVEL/COBBLES, little silt, wet.		S4	NA	60/46	<1		
10	End of boring 10'.						10	
15							15	

LEGEND: Filter Sand; Native Fill; Bentonite; Bentonite Grout; Concrete; PVC Screen; Solid PVC Riser

NOTES:
1. Boring advanced with hollow-stem augers; soil samples collected via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. Boring completed as 2" PVC monitoring well with flush-mounted roadbox.
5. NA=Not applicable.

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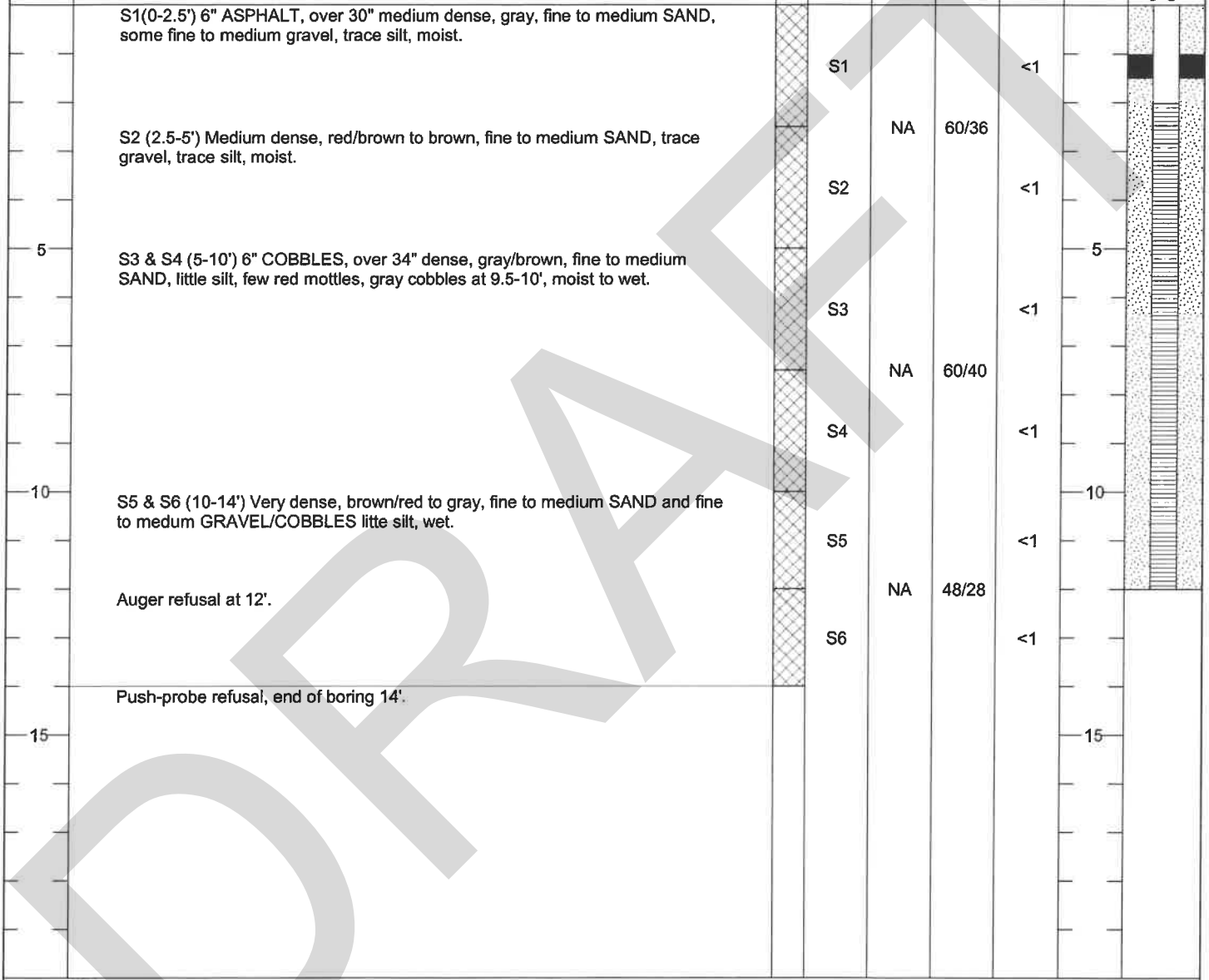
BORING AND MONITORING WELL LOG: B7/MW107

Reviewed by: SFR	Total Depth: 14 Feet	Logged By: BAB	
Date Reviewed: 12/13/2018	Boring Diameter: 8 1/2 Inches	Date Drilled: 8/16/18 to 8/16/18	
GW Observed at: 7 Feet	Well Stickup: Flush	Driller: EAI	

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppm)
	S1(0-2.5') 6" ASPHALT, over 30" medium dense, gray, fine to medium SAND, some fine to medium gravel, trace silt, moist.		S1			<1
	S2 (2.5-5') Medium dense, red/brown to brown, fine to medium SAND, trace gravel, trace silt, moist.			NA	60/36	
			S2			<1
5	S3 & S4 (5-10') 6" COBBLES, over 34" dense, gray/brown, fine to medium SAND, little silt, few red mottles, gray cobbles at 9.5-10', moist to wet.		S3			<1
				NA	60/40	
			S4			<1
10	S5 & S6 (10-14') Very dense, brown/red to gray, fine to medium SAND and fine to medum GRAVEL/COBBLES litte silt, wet.		S5			<1
	Auger refusal at 12'.			NA	48/28	
			S6			<1
	Push-probe refusal, end of boring 14'.					
15						



LEGEND:

Filter Sand | Native Fill | Bentonite | Bentonite Grout | Concrete | PVC Screen | Solid PVC Riser

NOTES:
1. Boring advanced with hollow-stem augers; soil samples collected via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. Boring completed as 2" PVC monitoring well with flush-mounted roadbox.
5. NA=Not applicable.

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BORING LOG: B8

Reviewed By:		Total Depth:	3 Feet	Logged By:	BAB
Date Reviewed:	12/13/2018	Boring Diameter:	2 1/2 Inches	Date Drilled:	8/15/18 to 8/15/18
GW Observed at:	NA	Well Stickup:	NA	Driller:	EAI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppmv)		DEPTH
	S1 (0-3') 5" CONCRETE, over brown/gray, fine to medium SAND little fine to medium gravel, cobbles from 1.75-2.5', fractured rock in cutting shoe, moist.		S1	NA	36/22	<1		
	Refusal, end of boring 3'.							
5								5
10								10
15								15

NOTES:
1. Boring advanced via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. NA=Not applicable.

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BORING LOG: B9

Reviewed By:	SFR	Total Depth:	5 Feet	Logged By:	BAB
Date Reviewed:	12/13/2018	Boring Diameter:	2 1/2 Inches	Date Drilled:	8/15/18 to 8/15/18
GW Observed at:	NA	Well Stickup:	NA	Driller:	EAI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppmv)		DEPTH
	S1 & S2 (0-5') 5" CONCRETE, over brown/gray, fine to medium SAND little fine to medium gravel, trace silt, fractured rock from 3.75-4.5'.		S1			<1		
				NA	60/36			
			S2			1		
5	Refusal, end of boring 5'.							5
10								10
15								15

NOTES:
1. Boring advanced via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. NA=Not applicable.

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BORING LOG: B11

Reviewed By: SFR		Total Depth: 4.5 Feet		Logged By: BAB	
Date Reviewed: 12/13/2018		Boring Diameter: 2 1/2 Inches		Date Drilled: 8/15/18 to 8/15/18	
GW Observed at: NA		Well Stickup: NA		Driller: EAI	

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppmv)		DEPTH
	S1 & S2 (0-5') 5" CONCRETE, over medium dense to dense, dark brown to red/brown to brown, fine to medium SAND, little fine to medium gravel, trace to little silt, fractured rock in cutting shoe at 4.5', moist.		S1			<1		
				NA	54/28			
			S2			<1		
	Refusal, end of boring 4.5'.							
5								5
10								10
15								15

NOTES:
1. Boring advanced via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. NA=Not applicable.

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BORING LOG: B12

Reviewed By: SFR		Total Depth: 10 Feet		Logged By: BAB	
Date Reviewed: 12/13/2018		Boring Diameter: 2 1/2 Inches		Date Drilled: 8/17/18 to 8/15/18	
GW Observed at: 8 Feet		Well Stickup: NA		Driller: EAI	

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppmv)	DEPTH
	S1 & S2 (0-5') 5" CONCRETE over 10" brown, fine to medium SAND, little fine to medium gravel, trace silt, over 3" black lens, over 11" brown, fine to medium SAND, little fine to medium gravel, trace silt, cobble at 4.5', moist, creosote or heavy oil odor.		S1			46	
				NA	60/24		
			S2			124	
5	S3 & S4 (5-10') 20" Gray/brown to brown/red, fine to medium SAND, little to some fine to medium gravel, little silt, over 18" brown/red to brown/gray, fine to medium GRAVEL and COBBLES, some fine to medium sand, trace to little silt, moist to wet, creosote or heavy oil odor.		S3			23	5
				NA	60/38		
			S4			120	
10	End of boring 10'.						10
15							15

NOTES:
1. Boring advanced via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. NA=Not applicable.

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BORING LOG: B13

Reviewed By:	SFR	Total Depth:	12.5 Feet	Logged By:	BAB
Date Reviewed:	12/13/2018	Boring Diameter:	2 1/2 Inches	Date Drilled:	8/15/18 to 8/15/18
GW Observed at:	10 Feet	Well Stickup:	NA	Driller:	EAI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppmv)	DEPTH
	S1 & S2 (0-5') 5" CONCRETE over brown/gray, fine to medium SAND, little fine to medium gravel, cobbles from 2-3', trace silt, dry to moist.		S1			<1	
				NA	60/40		
			S2			<1	
5	S3 & S4 (5-10') 28" Brown/gray, fine to medium SAND, little fine to medium gravel, cobbles from 5.75-6.75', over 8" gray/brown, fine to medium SAND, little silt and fine to medium gravel, moist.		S3			<1	5
				NA	60/36		
			S4			<1	
10	S5 (10-12.5') Gray/brown, fine to medium SAND, little silt and fine to medium gravel, wet.		S5	NA	30/26	1	10
	Refusal, end of boring 12.5'.						
15							15

NOTES:
1. Boring advanced via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. NA=Not applicable.

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BORING LOG: B14

Reviewed By:	SFR	Total Depth:	6 Feet	Logged By:	BAB
Date Reviewed:	12/13/2018	Boring Diameter:	1 1/2 Inches	Date Drilled:	8/17/18 to 8/17/18
GW Observed at:	NA	Well Stickup:	NA	Driller:	EAI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppmv)	DEPTH
	S1-S3 (0-6') 5" CONCRETE, over brown to brown/gray, fine to medium SAND, trace fine to medium gravel, trace silt, moist.		S1	NA	12/6	30	
			S2	NA	12/8	125	
5			S3	NA	12/8	12	5
	End of boring 6'.						
10							10
15							15

NOTES:
1. Boring advanced via hand tools.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. NA=Not applicable.

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BORING LOG: B15

Reviewed By:	SATZ	Total Depth:	10 Feet	Logged By:	BAB
Date Reviewed:	12/13/2018	Boring Diameter:	2 1/2 Inches	Date Drilled:	8/16/18 to 8/16/18
GW Observed at:	7 Feet	Well Stickup:	NA	Driller:	EAI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppmv)	DEPTH
	S1 & S2 (0-5') 2" ASPHALT, over 24" medium dense, brown to gray/brown, fine to medium SAND, little fine to medium gravel, trace silt, moist.		S1			<1	
				NA	60/26		
			S2			<1	
5	S3 & S4 (5-10') Brown/gray to red/brown, fine to medium SAND, trace to little fine to medium gravel, black lens at approximately 8.5', moist to wet.						5
			S3			<1	
				NA	60/30		
			S4			<1	
10	End of boring 10'.						10
15							15

NOTES:
1. Boring advanced via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. NA=Not applicable.

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BORING LOG: B16

Reviewed By: SFR		Total Depth: 10 Feet		Logged By: BAB	
Date Reviewed: 12/13/2018		Boring Diameter: 2 1/2 Inches		Date Drilled: 8/15/18 to 8/15/18	
GW Observed at: 8 Feet		Well Stickup: NA		Driller: EAI	

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppmv)	DEPTH
	S1 & S2 (0-5') 5" CONCRETE, over dense, brown to gray/brown, fine to medium SAND, little fine to medium gravel, trace silt, cobbles from 3-4', moist.		S1			<1	
				NA	60/32		
			S2			<1	
5	S3 (5-7.5') Dense, gray/brown, fine to medium SAND, little fine to medium gravel, trace silt, moist.						5
			S3			<1	
	S4 (7.5-10') Dense, gray/brown to red/brown, fine to medium SAND, some fine to medium gravel, little silt, lens of black/dark brown at 9', moist to wet.			NA	60/40		
			S4			<1	
10	End of boring 10'.						10
15							15

NOTES:
1. Boring advanced via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. NA=Not applicable.

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BORING LOG: B17

Reviewed By:	SFR	Total Depth:	8 Feet	Logged By:	BAB
Date Reviewed:	12/13/2018	Boring Diameter:	2 1/2 Inches	Date Drilled:	8/15/18 to 8/15/18
GW Observed at:	6 Feet	Well Stickup:	NA	Driller:	EAI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppmv)	DEPTH
	S1 & S2 (0-5') 5" CONCRETE, over dense to medium dense, brown/gray, fine to medium SAND, some to trace, fine to medium gravel, trace silt, moist.		S1			<1	
				NA	60/40		
			S2			<1	
5	S3 (5-8') Dense, brown, fine to medium SAND, little fine to medium gravel, trace to little silt, black/dark brown lens at approximately 7', moist to wet.						5
			S3		36/30	1	
	End of boring 8'.						
10							10
15							15

NOTES:
1. Boring advanced via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. NA=Not applicable.

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BORING LOG: B18

Reviewed By:	SFK	Total Depth:	10 Feet	Logged By:	BAB
Date Reviewed:	12/13/2018	Boring Diameter:	2 1/2 Inches	Date Drilled:	8/15/18 to 8/15/18
GW Observed at:	7.5 Feet	Well Stickup:	NA	Driller:	EAI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppmv)	DEPTH
	S1 & S2 (0-5') 5" CONCRETE, over medium dense to dense, red/brown to gray/brown, fine to medium SAND, little fine to medium gravel, trace to little silt, moist.		S1			<1	
				NA	60/36		
			S2			<1	
5	S3 (5-7.5') 6" Gray/brown, fine to medium SAND, little fine to medium gravel, little silt, over 12" red/brown, fine to medium SAND, little silt, over 4" gray/brown, fine to medium SAND, little silt, moist to wet.						5
			S3			<1	
	S4 (7.5-10') Gray/brown to red/brown, fine to medium SAND, little to some fine to medium gravel, little silt, weathered rock at 9.5', wet.			NA	60/44		
			S4			<1	
10	End of boring 10'.						10
15							15

NOTES:
1. Boring advanced via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. NA=Not applicable.

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BORING LOG: B19

Reviewed By:	SFR	Total Depth:	10 Feet	Logged By:	BAB
Date Reviewed:	12/13/2018	Boring Diameter:	2 1/2 Inches	Date Drilled:	8/15/18 to 8/15/18
GW Observed at:	8 Feet	Well Stickup:	NA	Driller:	EAI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppmv)		DEPTH
	S1 & S2 (0-5') 5" CONCRETE, over gray/brown, fine to medium SAND, little fine to medium gravel, trace to little silt, cobbles at 1-1.5', moist.		S1			<1		
				NA	60/26			
			S2			1		
5	S3 & S4 (5-10') Gray/brown, fine to medium SAND, little fine to medium gravel, little silt, moist to wet.							5
			S3			1		
				NA	60/24			
			S4			<1		
10	End of boring 10'.							10
15								15

NOTES:
1. Boring advanced via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. NA=Not applicable.

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BORING LOG: B20

Reviewed By:	SFR	Total Depth:	6.5 Feet	Logged By:	BAB
Date Reviewed:	12/13/2018	Boring Diameter:	2 1/2 Inches	Date Drilled:	8/15/18 to 8/15/18
GW Observed at:	NA	Well Stickup:	NA	Driller:	EAI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppmv)	DEPTH
	S1 (0-2.5') 5" CONCRETE, over dense, brown, fine to medium SAND, little fine to medium gravel, trace to little silt, moist.		S1			<1	
	S2 (2.5-5') Medium dense, brown/gray, fine to medium SAND, trace fine to medium gravel, trace silt, moist.		S2	NA	60/42	<1	
5	S3 (5-6.5') Dense, brown, fine to medium SAND, little fine to medium gravel, trace to little silt, moist.		S3	NA	30/20	1	5
	Refusal, end of boring 6.5'.						
10							10
15							15

NOTES:
1. Boring advanced via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. NA=Not applicable.

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BORING AND MONITORING WELL LOG: B21/MW104

Reviewed by:	STC	Total Depth:	12 Feet	Logged By:	BAB
Date Reviewed:	12/13/2018	Boring Diameter:	8 1/2 Inches	Date Drilled:	8/15/18 to 8/15/18
GW Observed at:	9 Feet	Well Stickup:	Flush	Driller:	EAI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppm)
0	S1& S2 (0-5') 5" CONCRETE, over brown/gray, fine to medium SAND, little fine to medium gravel, trace silt, cobbles from 4.5-5', moist.		S1			<1
				NA	60/34	
			S2			<1
5	S3 & S4 (5-10') Brown/gray, fine to medium SAND, little fine to medium gravel, little silt, cobbles at 8' and 9-9.5', moist to wet.		S3			13
				NA	60/44	
			S4			17
10	Augered to 12'.					
	End of boring 12'.					
15						

DEPTH	WELL CONSTRUCTION
0	
5	
10	
15	

LEGEND:

Filter Sand | Native Fill | Bentonite | Bentonite Grout | Concrete | PVC Screen | Solid PVC Riser

NOTES:
1. Boring advanced with hollow-stem augers; soil samples collected via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. Boring completed as 2" PVC monitoring well with flush-mounted roadbox.
5. NA=Not applicable.

CLIENT:
SWRPC

SITE:
W. W. Cross Property
39 Webster Street
Jaffrey, NH

Project No.: 141.05051.010

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BORING LOG: B22

Reviewed By:	SRR	Total Depth:	5 Feet	Logged By:	BAB
Date Reviewed:	12/13/2018	Boring Diameter:	2 1/2 Inches	Date Drilled:	8/15/18 to 8/15/18
GW Observed at:	3 Feet	Well Stickup:	NA	Driller:	EAI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppmv)		DEPTH
	S1 (0-2.5') 1" ASPHALT, over 19" medium dense, brown, fine to medium SAND, little fine to medium gravel, trace silt, moist.		S1			<1		
	S2 (2.5-5') Gray/brown, fine to medium SAND and SILT, trace fine to medium gravel, moist to wet.			NA	60/40			
			S2			<1		
5	End of boring 5'.							5
10								10
15								15

NOTES:
1. Boring advanced via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. NA=Not applicable.

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SITE:
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Jaffrey, NH

Project No.: 141.05051.010

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BORING AND MONITORING WELL LOG: B26/MW108

Reviewed by:	BFR	Total Depth:	12 Feet	Logged By:	BAB
Date Reviewed:	12/13/2018	Boring Diameter:	8 1/2 Inches	Date Drilled:	8/16/18 to 8/16/18
GW Observed at:	4.5 Feet	Well Stickup:	Flush	Driller:	EAI

DEPTH	DESCRIPTION (Based on a modified Burmister Soil Classification System)	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY	PID (ppm)
	S1 & S2 (0-5') 6" ASPHALT, over 22" medium dense, brown/gray, fine to medium SAND, little fine to medium gravel, over 6" medium dense, black to dark brown, fine to medium SAND, little silt, moist to wet, creosote or heavy oil odor.		S1			<1
				NA	60/34	
			S2			<1
5	S2 (5-10') 10" dark brown to black, medium dense, fine to medium SAND, little silt, over 30" gray, medium dense, fine to medium SAND, trace silt, over 10" gray, to red/brown, medium dense, fine to medium SAND, little fine to medium gravel, little to trace silt, wet.		S3			2
				NA	60/50	
			S4			<1
10	Augered to 12'.					
	End of boring 12'.					
15						

DEPTH: 5, 10, 15

WELL CONSTRUCTION

LEGEND: Filter Sand; Native Fill; Bentonite; Bentonite Grout; Concrete; PVC Screen; Solid PVC Riser

NOTES:
1. Boring advanced with hollow-stem augers; soil samples collected via push-probe (Geoprobe®) methodology.
2. Soils field-screened with MiniRAE 2000 PID calibrated with 100 ppm isobutylene.
3. Sample designated with solid fill submitted for laboratory analysis.
4. Boring completed as 2" PVC monitoring well with flush-mounted roadbox.
5. NA=Not applicable.

CLIENT:
SWRPC

SITE:
W. W. Cross Property
39 Webster Street
Jaffrey, NH

Project No.: 141.05051.010

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TRIP LOG

Project Number: 141.05051.010	Personnel: BAB/DAF
Site Name: WW Cross - Jaffrey NH	Date: 9-6-18
Weather: Hot/Humid 90°F - Showers in PM	Arrival: 8:00 Departure: 19:00

Reviewed/Signed Site-Specific Safety Plan (initial here): BAB

Site Visit Objective: Sample newly installed GW monitoring wells - Collect remaining shallow soil samples Survey MW's + select borings - Tie into other site wells)

People Observed on Site: Met Tom Hatter (Sp?) from Loureiro Engineering for access to site well MW-14 to tie into T-PVC for GW flow - Site is Vacant

Notes: Sampled MW's per SSQAPP - Low Volume + slow recharge @ MW2 + MW4 limited SCA - Need to return for collection of additional samples for: MW2 - PAHs; MW-4 - PAHs, 1,4-dioxane, Total Cyanide, and Sulfate.

Duplicate GW Samples: PFAS-DUP (=Dup of MW3)
GW-DUP (=Dup of MW8 for all remaining parameters)

Collected shallow soil samples @ B-24 and B-25.
Will collect soils @ B-23 on return trip -
All samples kept on ice + GW samples delivered next day to Alpha - PFAS collected in accordance w/ DES Guidelines - Field Blank collected @ 17:35

Attach: Additional Notes ✓ Field Forms ✓ Photographs ✓

Report By: (Signature) [signature] Date: 9-6-18

Report Reviewed By: (Signature) Date:

T:\LOGS\TripLog.doc

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LOW-FLOW GROUND WATER SAMPLING LOG

Project: WW Cross Property Project No.: 141.0501.010 Date: 9-6-18 Sampler(s): DAF / BAB

Site Location: Jaffrey / NH Well Identification: MW-1

WELL CONSTRUCTION DATA

Total Depth (feet): 12' Static Depth to Ground Water (feet): 8.12 Well Diameter (inches): 2"

Measuring Point T-PVC Screened Interval: 2-12 Well Stick-up (feet): flush

Comments:

PURGING DATA

Purging Device: Peristaltic Pump Intake Set At (Feet): Depth to GW after pump insertion:

Start Time: 16:09 Comments:

SAMPLE DATA

Sample Date/Time: 9-6-18/17:10 Sample Identification: MW-1 Laboratory: Alpha

Sample Analyses: EPH VPH TPH VOCs (Method 8260C) SVOCs PAH Metals Diss RCRA Metals PCBs Other 1-4 Dioxane, Total Cyanide, Sulfate

Comments: PAH/Metals Samples are field filtered

Signed by Sampler: Date: 9-6-18

u

MW-1

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16:04 8.12 @ Start + 0.11

LOW-FLOW GROUND WATER SAMPLING LOG

Time	Depth to Water (feet)	Pump Setting	Purge Rate (l/min)	Cumulative Volume Purged (liters)	Temperature ∀ 0.2 (°C)	Specific Conductivity ∀ 3% (mS/cm)	DO 10% or ∀ 0.10 or <0.5 (mg/L)	pH ∀ 0.1 (S.U.)	ORP ∀ 10 (mv)	Turbidity 10% or <5 (NTU)
16:36	—	na	0.15		17.44	3.290	6.72	6.12	150	13
16:41	8.65				17.42	3.493	6.51	6.12	150	2
16:46	8.70				17.46	3.624	6.34	6.11	150	1
16:51	8.70				17.55	3.734	6.23	6.09	147	0.9
16:56	8.71				17.62	3.791	6.16	6.09	145	0.9
17:01	8.72		SAMPLED		17.57	3.847	6.13	6.08	143	1.0

Comments: na = Not Applicable nm = Not Measured

16:53

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LOW-FLOW GROUND WATER SAMPLING LOG

Project: WW Cross Property Project No.: 141.0501.010 Date: 9-6-18 Sampler(s): DAF / BAB
Site Location: Jaffrey / NH Well Identification: MW-2

WELL CONSTRUCTION DATA

Total Depth (feet): 9½ (9.47') Static Depth to Ground Water (feet): 8.65' Well Diameter (inches): 2"
Measuring Point T-PVC Screened Interval: 2-9½' Well Stick-up (feet): Flush
Comments: new well

PURGING DATA

Purging Device: Peristaltic Pump Intake Set At (Feet): 9.35' Depth to GW after pump insertion: —
Start Time: 15:20 Comments: clear purge

SAMPLE DATA

Sample Date/Time: 9-6-18 / 16:53 Sample Identification: MW-2 Laboratory: Alpha
Sample Analyses: EPH VPH TPH VOCs (Method 8260C) ~~SVOCs~~ PAH Metals PCBs Other 1,4-Dioxane, Total Cyanide, Sulfate + PFAS
Comments: PAH/Metals Samples are field filtered

Signed by Sampler: [signature] Date: 9-6-18

Sampled initial MW2 purge water due to drawdown and volume concerns:
MW2-IP 9-6-18 15:20 - VOCs, PAHs (1.25 jars)
IP = initial purge

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MW-2

LOW-FLOW GROUND WATER SAMPLING LOG

Time	Depth to Water (feet)	Pump Setting	Purge Rate (l/min)	Cumulative Volume Purged (liters)	Temperature ∀ 0.2 (°C)	Specific Conductivity ∀ 3% (mS/cm)	DO 10% or ∀ 0.10 or <0.5 (mg/L)	pH ∀ 0.1 (S.U.)	ORP ∀ 10 (mv)	Turbidity 10% or <5 (NTU)
15:20	8.65	na	0.10							
15:35	9.05		0.08							
15:40	9.12		0.07		12.37	0.963	4.03	6.84	202.3	0.2
	pump died → swap				pulled out pump → new pump @	15:45				
15:50	>9.20				18.56	0.949	3.24	6.82	214.4	10.2
15:55	dry → will wait 40 sample recharge									
	Sampled recharge @ 16:53									

filled flow → through cell

Comments: na = Not Applicable nm = Not Measured

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LOW-FLOW GROUND WATER SAMPLING LOG

Project: WW Cross Property Project No.: 141.0501.010 Date: 9-6-18 Sampler(s): DAF / BAB

Site Location: Jaffrey / NH Well Identification: MW-3

WELL CONSTRUCTION DATA

Total Depth (feet): 12' Static Depth to Ground Water (feet): 9.29' Well Diameter (inches): 2"

Measuring Point T-PVC Screened Interval: 2-12' Well Stick-up (feet): flush

Comments: new well, great shape

PURGING DATA

Purging Device: Peristaltic Pump Intake Set At (Feet): 11' Depth to GW after pump insertion: ____

Start Time: 9:30 Comments: clear discharge

SAMPLE DATA

Sample Date/Time: 9-6-18 / 10:38 Sample Identification: MW-3 Laboratory: Alpha

Sample Analyses: EPH VPH TPH ✓VOCs (Method 8260C) ✓SVOCs ✓Metals PCBs ✓Other 1,4-Dioxane, ✓Total Cyanide, Sulfate + PFAS

Comments: PAH/Metals Samples are field filtered; PFAS dup

Signed by Sampler: [signature] Date: 9-6-18

MW-3

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LOW-FLOW GROUND WATER SAMPLING LOG

Time	Depth to Water (feet)	Pump Setting	Purge Rate (l/min)	Cumulative Volume Purged (liters)	Temperature ∀ 0.2 (°C)	Specific Conductivity ∀ 3% (mS/cm)	DO 10% or ∀ 0.10 or <0.5 (mg/L)	pH ∀ 0.1 (S.U.)	ORP ∀ 10 (mv)	Turbidity 10% or <5 (NTU)
9:30	9.29	na	0.15							
10:28	10.12				19.52	0.195	5.49	6.63	179.8	2.6
10:33	10.12				19.47	0.192	5.52	6.63	179.0	2.8
10:38	10.12		SAMPLED		19.56	0.192	5.54	6.63	177.9	2.5

Comments: na = Not Applicable nm = Not Measured

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LOW-FLOW GROUND WATER SAMPLING LOG

Project: WW Cross Property Project No.: 141.05051.010 Date: 9-6-18 Sampler(s): DAF / BAB
Site Location: Jaffrey, NH Well Identification: MW-4

WELL CONSTRUCTION DATA

Total Depth (feet): 12' Static Depth to Ground Water (feet): 10.62' Well Diameter (inches): 2"
Measuring Point T-PVC Screened Interval: 2-12' Well Stick-up (feet): flush
Comments: new well

PURGING DATA

Purging Device: Peristaltic Pump Intake Set At (Feet): 11.5' Depth to GW after pump insertion: —
Start Time: 14:10 Comments: clear initial discharge

SAMPLE DATA

Sample Date/Time: 9-6-18/16:00 Sample Identification: MW-4 Laboratory: Alpha
Sample Analyses: EPH VPH TPH ✓VOCs (Method 8260C) ~~PAH~~ SVOCs ✓Diss PP Metals Metals PCBs ✓Other ~~Ethanol~~, ~~Total Cyanide~~, Sulfate?
Comments: PAH/Metals Samples are field filtered

Signed by Sampler: [signature] Date: 9-6-18

Due to recharge rate, the following sample jars were collected:
VOCs, Diss. PP metals

MW-4

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LOW-FLOW GROUND WATER SAMPLING LOG

Time	Depth to Water (feet)	Pump Setting	Purge Rate (l/min)	Cumulative Volume Purged (liters)	Temperature ∀ 0.2 (°C)	Specific Conductivity ∀ 3% (mS/cm)	DO 10% or ∀ 0.10 or <0.5 (mg/L)	pH ∀ 0.1 (S.U.)	ORP ∀ 10 (mv)	Turbidity 10% or <5 (NTU)
14:10	10.62'	na	0.15'							
14:50	dry	at 11.40' → lowered tubing to 11.75'								
14:55	11.65		0.05		17.34	0.951	5.76	6.34	119.2	5.4
14:57	dry	at 11.75' → will have to sample recharge.								
		Sampled recharge @ 16:00								
			took multiple rounds of recharge							

Comments: na = Not Applicable nm = Not Measured

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LOW-FLOW GROUND WATER SAMPLING LOG

Project: WW Cross Property Project No.: 141.0505.010 Date: 9-6-18 Sampler(s): DAF / BAB

Site Location: Jaffrey / NH Well Identification: MW-5

WELL CONSTRUCTION DATA

Total Depth (feet): 12' Static Depth to Ground Water (feet): 4.19 Well Diameter (inches): 2"

Measuring Point T-PVC Screened Interval: 2-12' Well Stick-up (feet): Flush

Comments:

PURGING DATA

Purging Device: Peristaltic Pump Intake Set At (Feet): 6' Depth to GW after pump insertion:

Start Time: 12:29 Comments:

SAMPLE DATA

Sample Date/Time: 9-6-18 / 13:11 Sample Identification: MW-5 Laboratory: Alpha

Sample Analyses: EPH VPH TPH VOCs (Method 8260C) SVOCs (PAH) Metals PCBs Other

Comments: PAH Sample is field filtered

Signed by Sampler: Date: 9-6-18

MW-5

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LOW-FLOW GROUND WATER SAMPLING LOG

Time	Depth to Water (feet)	Pump Setting	Purge Rate (l/min)	Cumulative Volume Purged (liters)	Temperature ∀ 0.2 (°C)	Specific Conductivity ∀ 3% (mS/cm)	DO 10% or ∀ 0.10 or <0.5 (mg/L)	pH ∀ 0.1 (S.U.)	ORP ∀ 10 (mv)	Turbidity 10% or <5 (NTU)
12:29	4.19	na	0.15	—	—	—	—	—	—	—
12:41	—				20.98	0.445	1.07	7.56	-44	0.9
12:46	4.54				20.95	0.447	0.93	7.59	-78	0.7
12:51	4.55				20.75	0.448	0.61	7.59	-86	0.9
12:56	—				20.89	0.449	0.55	7.60	-103	0.8
13:01	—				20.99	0.451	0.52	7.61	-110	0.8
13:06	4.54				20.93	0.452	0.48	7.63	-114	0.8
13:11					20.84	0.453	0.45	7.63	-116	0.8

Comments: na = Not Applicable nm = Not Measured

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LOW-FLOW GROUND WATER SAMPLING LOG

Project: WW Cross Property Project No.: 141.0501.010 Date: 9-6-18 Sampler(s): DAF / BAB

Site Location: Jaffrey / NH Well Identification: MW-6

WELL CONSTRUCTION DATA

Total Depth (feet): 10 Static Depth to Ground Water (feet): 2.86 Well Diameter (inches): 2"

Measuring Point T-PVC Screened Interval: 1½-10' Well Stick-up (feet): Flush

Comments:

PURGING DATA

Purging Device: Peristaltic Pump Intake Set At (Feet): 7.5 Depth to GW after pump insertion:

Start Time: 13:48 Comments:

SAMPLE DATA

Sample Date/Time: 9-6-18/15:07 Sample Identification: MW-6 Laboratory: Alpha

Sample Analyses: EPH VPH TPH VOCs (Method 8260C) SVOCs (PAH) Metals (Dissolved) PCBs Other 1,4-Dioxane, Total Cyanide, Sulfate

Comments: PAH/Metals Samples are field filtered

Signed by Sampler: D. Ford Date: 9-6-18

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MW-6

LOW-FLOW GROUND WATER SAMPLING LOG

Time	Depth to Water (feet)	Pump Setting	Purge Rate (l/min)	Cumulative Volume Purged (liters)	Temperature ∀ 0.2 (°C)	Specific Conductivity ∀ 3% (mS/cm)	DO 10% or ∀ 0.10 or <0.5 (mg/L)	pH ∀ 0.1 (S.U.)	ORP ∀ 10 (mv)	Turbidity 10% or <5 (NTU)
13:48	2.86	na	0.15	—	—	—	—	—	—	—
14:52	2.95				23.58	0.350	0.22	5.80	111	6
14:57	—				23.65	0.333	0.22	5.80	111	6
15:02	2.95				23.62	0.326	0.22	5.80	111	7
15:07	—				23.57	0.323	0.22	5.80	111	7

Comments: na = Not Applicable nm = Not Measured

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LOW-FLOW GROUND WATER SAMPLING LOG

Project: WW Cross Property Project No.: 141.0561.010 Date: 9-6-18 Sampler(s): DAF / BAB

Site Location: Jaffrey / NH Well Identification: MW-7

WELL CONSTRUCTION DATA

Total Depth (feet): 12' Static Depth to Ground Water (feet): 5.79 Well Diameter (inches): 2"

Measuring Point T-PVC Screened Interval: 2-12' Well Stick-up (feet): Flush

Comments:

PURGING DATA

Purging Device: Peristaltic Pump Intake Set At (Feet): 8' Depth to GW after pump insertion:

Start Time: 10:57 Comments:

SAMPLE DATA

Sample Date/Time: 9-6-18/12:02 Sample Identification: MW-7 Laboratory: Alpha

Sample Analyses: EPH VPH TPH VOCs (Method 8260C) SVOCs (PAH) Metals (Dissolved) PCBs Other

Comments: PAH/Metals Samples are field filtered

Signed by Sampler: Date: 9-6-18

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MW-7

LOW-FLOW GROUND WATER SAMPLING LOG

Time	Depth to Water (feet)	Pump Setting	Purge Rate (l/min)	Cumulative Volume Purged (liters)	Temperature ∀ 0.2 (°C)	Specific Conductivity ∀ 3% (mS/cm)	DO 10% or ∀ 0.10 or <0.5 (mg/L)	pH ∀ 0.1 (S.U.)	ORP ∀ 10 (mv)	Turbidity 10% or <5 (NTU)
10:57	5.79	na	0.15		—	—	—	—	—	—
11:12	—				22.94	1.822	5.20	5.12	253	32
11:17	6.08				23.16	1.810	5.43	5.09	269	38
11:22	6.10				22.49	1.834	4.83	5.11	275	15
11:27	6.10				22.32	1.847	4.51	5.11	277	10
11:32	—				22.15	1.883	4.15	5.10	277	6
11:37	6.11				22.14	1.945	3.57	5.13	276	4
11:42	—				21.91	1.986	2.95	5.15	275	3
11:47	—				21.71	2.028	2.67	5.17	273	3
11:52	—				21.79	2.052	2.43	5.18	272	2
11:57	—				21.70	2.056	2.33	5.19	274	2
12:02	—				21.85	2.071	2.24	5.19	275	2
				—						

Comments: na = Not Applicable nm = Not Measured

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LOW-FLOW GROUND WATER SAMPLING LOG

Project: WW Cross Property Project No.: 141.0501.010 Date: 9-6-18 Sampler(s): DAF / BAB

Site Location: Jaffrey / NH Well Identification: MW-8

WELL CONSTRUCTION DATA

Total Depth (feet): 12' Static Depth to Ground Water (feet): 4.65' Well Diameter (inches): 2"

Measuring Point T-PVC Screened Interval: 2-12' Well Stick-up (feet): flush

Comments: new well - great shape

PURGING DATA

Purging Device: Peristaltic Pump Intake Set At (Feet): 6.5' Depth to GW after pump insertion: —

Start Time: 11:27 Comments: clear until tbd discharge

SAMPLE DATA

Sample Date/Time: 9-6-18 / 12:32 Sample Identification: MW-8 Laboratory: Alpha

Sample Analyses: EPH VPH TPH VOCs (Method 8260C) SVOCs (PAH) Metals (Diss PP Metals) PCBs Other (1-4 Dioxane, Total Cyanide, Sulfate)

Comments: PAH/Metals Samples are field filtered

Signed by Sampler: Drew Ch Date: 9-6-18

9-6-18 / 12:32: GW-Dup collected at same time for all analyses. (VOCs, PAH, Diss PP Metals, 1-4 Dioxane, Total Cyanide, Sulfate)

MW-8

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LOW-FLOW GROUND WATER SAMPLING LOG

NHDES Nov 2017 (nearest whole #) (nearest whole #)

Per SOP No. HWPB-9; rev 10: +/-1°C +/-3% +/-0.1 +/-10mV +/-10% (>10)

Time	Depth to Water (feet)	Pump Setting	Purge Rate (l/min)	Cumulative Volume Purged (liters)	Temperature ∀ 0.2 (°C)	Specific Conductivity ∀ 3% (mS/cm)	DO 10% or ∀ 0.10 or <0.5 (mg/L)	pH ∀ 0.1 (S.U.)	ORP ∀ 10 (mv)	Turbidity 10% or <5 (NTU)
11:27	4.65'	na	0.15							
11:42	4.77'				24.47	0.700	0.57	6.07	79.4	9.4
11:47	4.77'				24.29	0.507	0.38	6.16	58.8	9.6
11:52	4.77'				24.29	0.407	0.34	6.20	37.4	14.8
11:57	4.77'				24.22	0.344	0.28	6.23	7.0	9.2
12:02	4.77'				24.25	0.312	0.26	6.25	-24.8	2.8
12:07					24.28	0.291	0.24	6.25	-24.2	10.6
12:12	4.77'				24.30	0.282	0.22	6.26	-35.0	1.5
12:17					24.26	0.267	0.22	6.27	-43.6	16.5
12:22	4.77'				24.23	0.260	0.21	6.27	-37.2	11.0
12:27					24.05	0.252	0.21	6.29	-44.1	10.6
12:32	4.77'		SAMPLED		24.03	0.246	0.21	6.29	-50.4	10.8
~~12:37~~										

Comments: na = Not Applicable nm = Not Measured

APPENDIX B

Laboratory Analytical Results

Phase II Environmental Site Assessment
W. W. Cross Property
39 Webster Street
Jaffrey, New Hampshire

ANALYTICAL REPORT

Lab Number:	L1832241
Client:	Ransom Consulting, Inc. 112 Corporate Drive Pease International Tradeport Portsmouth, NH 03801
ATTN:	Steve Rickerich
Phone:	(603) 436-1490
Project Name:	WW CROSS PROPERTY
Project Number:	141.05051.010
Report Date:	08/28/18

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1832241-01	B1-S2	SOIL	JAFFREY, NH	08/15/18 15:15	08/16/18
L1832241-02	B1-S4	SOIL	JAFFREY, NH	08/15/18 15:30	08/16/18
L1832241-03	B4-S3	SOIL	JAFFREY, NH	08/15/18 11:20	08/16/18
L1832241-04	B8-S1	SOIL	JAFFREY, NH	08/15/18 08:50	08/16/18
L1832241-05	B9-S2	SOIL	JAFFREY, NH	08/15/18 13:30	08/16/18
L1832241-06	B11-S1	SOIL	JAFFREY, NH	08/15/18 14:10	08/16/18
L1832241-07	B13-S5	SOIL	JAFFREY, NH	08/15/18 09:40	08/16/18
L1832241-08	B16-S4	SOIL	JAFFREY, NH	08/15/18 14:45	08/16/18
L1832241-09	B17-S3	SOIL	JAFFREY, NH	08/15/18 12:30	08/16/18
L1832241-10	B18-S3	SOIL	JAFFREY, NH	08/15/18 16:05	08/16/18
L1832241-11	B19-S2	SOIL	JAFFREY, NH	08/15/18 16:45	08/16/18
L1832241-12	B20-S3	SOIL	JAFFREY, NH	08/15/18 11:55	08/16/18
L1832241-13	B21-S4	SOIL	JAFFREY, NH	08/15/18 10:30	08/16/18
L1832241-14	CS-1	CONCRETE	JAFFREY, NH	08/15/18 15:05	08/16/18
L1832241-15	CS-9	CONCRETE	JAFFREY, NH	08/15/18 13:25	08/16/18
L1832241-16	CS-16	CONCRETE	JAFFREY, NH	08/15/18 14:30	08/16/18
L1832241-17	CS-17	CONCRETE	JAFFREY, NH	08/15/18 12:20	08/16/18
L1832241-18	CS-18	CONCRETE	JAFFREY, NH	08/15/18 15:50	08/16/18
L1832241-19	CS-19	CONCRETE	JAFFREY, NH	08/15/18 16:30	08/16/18
L1832241-20	CS-DUP1	CONCRETE	JAFFREY, NH	08/15/18 13:25	08/16/18
L1832241-21	CS-DUP2	CONCRETE	JAFFREY, NH	08/15/18 14:30	08/16/18
L1832241-22	CS-DUP3	CONCRETE	JAFFREY, NH	08/15/18 15:05	08/16/18
L1832241-23	TCN-DUP	SOIL	JAFFREY, NH	08/15/18 16:05	08/16/18
L1832241-24	TRIP BLANK	SOIL	JAFFREY, NH	08/15/18 00:00	08/16/18

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1832241
Project Number:	141.05051.010	**Report Date:**	08/28/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1832241
Project Number:	141.05051.010	**Report Date:**	08/28/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L1832241-17: A sample identified as "CS-17" was listed on the Chain of Custody, but not received. This was verified by the client.

Total Metals

L1832241-15, -16 and -18: The sample has an elevated detection limit for cadmium due to the dilution required by matrix interferences encountered during analysis.

The WG1150965-3 MS recoveries, performed on L1832241-14, are outside the acceptance criteria for antimony (74%), cadmium (64%), chromium (74%), lead (71%) and nickel (68%). A post digestion spike was performed and was within acceptance criteria.

The WG1150965-3 MS recovery, performed on L1832241-14, is outside the acceptance criteria for thallium (68%). A post digestion spike was performed and yielded an unacceptable recovery for thallium (78%). The serial dilution recovery was not applicable; therefore, this element fails the matrix test and the results reported in the native sample should be considered estimated.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 08/28/18

ORGANICS

VOLATILES

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-01
Client ID: B1-S2
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 15:15
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/27/18 22:30
Analyst: MV
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	3.4	1.6	1
1,1-Dichloroethane	ND		ug/kg	0.68	0.10	1
Chloroform	ND		ug/kg	1.0	0.10	1
Carbon tetrachloride	ND		ug/kg	0.68	0.16	1
1,2-Dichloropropane	ND		ug/kg	0.68	0.09	1
Dibromochloromethane	ND		ug/kg	0.68	0.10	1
1,1,2-Trichloroethane	ND		ug/kg	0.68	0.18	1
Tetrachloroethene	ND		ug/kg	0.34	0.13	1
Chlorobenzene	ND		ug/kg	0.34	0.09	1
Trichlorofluoromethane	ND		ug/kg	2.7	0.47	1
1,2-Dichloroethane	ND		ug/kg	0.68	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	0.34	0.11	1
Bromodichloromethane	ND		ug/kg	0.34	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.68	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.34	0.11	1
1,3-Dichloropropene, Total	ND		ug/kg	0.34	0.11	1
1,1-Dichloropropene	ND		ug/kg	0.34	0.11	1
Bromoform	ND		ug/kg	2.7	0.17	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.34	0.11	1
Benzene	ND		ug/kg	0.34	0.11	1
Toluene	ND		ug/kg	0.68	0.37	1
Ethylbenzene	ND		ug/kg	0.68	0.10	1
Chloromethane	ND		ug/kg	2.7	0.64	1
Bromomethane	ND		ug/kg	1.4	0.40	1
Vinyl chloride	ND		ug/kg	0.68	0.23	1
Chloroethane	ND		ug/kg	1.4	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.68	0.16	1
trans-1,2-Dichloroethene	ND		ug/kg	1.0	0.09	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-01 Date Collected: 08/15/18 15:15

Client ID: B1-S2 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.34	0.09	1
1,2-Dichlorobenzene	ND		ug/kg	1.4	0.10	1
1,3-Dichlorobenzene	ND		ug/kg	1.4	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	1.4	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.4	0.14	1
p/m-Xylene	ND		ug/kg	1.4	0.38	1
o-Xylene	ND		ug/kg	0.68	0.20	1
Xylenes, Total	ND		ug/kg	0.68	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	0.68	0.12	1
1,2-Dichloroethene, Total	ND		ug/kg	0.68	0.09	1
Dibromomethane	ND		ug/kg	1.4	0.16	1
1,2,3-Trichloropropane	ND		ug/kg	1.4	0.09	1
Styrene	ND		ug/kg	0.68	0.13	1
Dichlorodifluoromethane	ND		ug/kg	6.8	0.62	1
Acetone	ND		ug/kg	6.8	3.3	1
Carbon disulfide	ND		ug/kg	6.8	3.1	1
2-Butanone	ND		ug/kg	6.8	1.5	1
4-Methyl-2-pentanone	ND		ug/kg	6.8	0.87	1
2-Hexanone	ND		ug/kg	6.8	0.80	1
Bromochloromethane	ND		ug/kg	1.4	0.14	1
Tetrahydrofuran	ND		ug/kg	2.7	1.1	1
2,2-Dichloropropane	ND		ug/kg	1.4	0.14	1
1,2-Dibromoethane	ND		ug/kg	0.68	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.34	0.09	1
Bromobenzene	ND		ug/kg	1.4	0.10	1
n-Butylbenzene	ND		ug/kg	0.68	0.11	1
sec-Butylbenzene	ND		ug/kg	0.68	0.10	1
tert-Butylbenzene	ND		ug/kg	1.4	0.08	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.4	0.12	1
o-Chlorotoluene	ND		ug/kg	1.4	0.13	1
p-Chlorotoluene	ND		ug/kg	1.4	0.07	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.0	0.68	1
Hexachlorobutadiene	ND		ug/kg	2.7	0.12	1
Isopropylbenzene	ND		ug/kg	0.68	0.07	1
p-Isopropyltoluene	ND		ug/kg	0.68	0.07	1
Naphthalene	ND		ug/kg	2.7	0.44	1
n-Propylbenzene	ND		ug/kg	0.68	0.12	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-01 Date Collected: 08/15/18 15:15

Client ID: B1-S2 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.4	0.22	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.4	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.4	0.13	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.4	0.23	1
Ethyl ether	ND		ug/kg	1.4	0.23	1
Isopropyl Ether	ND		ug/kg	1.4	0.14	1
Tert-Butyl Alcohol	ND		ug/kg	14	3.5	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.4	0.09	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.4	0.12	1
1,4-Dioxane	ND		ug/kg	68	24.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-03
Client ID: B4-S3
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 11:20
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/25/18 12:24
Analyst: AD
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	3.4	1.5	1
1,1-Dichloroethane	ND		ug/kg	0.67	0.10	1
Chloroform	ND		ug/kg	1.0	0.09	1
Carbon tetrachloride	ND		ug/kg	0.67	0.16	1
1,2-Dichloropropane	ND		ug/kg	0.67	0.08	1
Dibromochloromethane	ND		ug/kg	0.67	0.09	1
1,1,2-Trichloroethane	ND		ug/kg	0.67	0.18	1
Tetrachloroethene	ND		ug/kg	0.34	0.13	1
Chlorobenzene	ND		ug/kg	0.34	0.09	1
Trichlorofluoromethane	ND		ug/kg	2.7	0.47	1
1,2-Dichloroethane	ND		ug/kg	0.67	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	0.34	0.11	1
Bromodichloromethane	ND		ug/kg	0.34	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.67	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.34	0.11	1
1,3-Dichloropropene, Total	ND		ug/kg	0.34	0.11	1
1,1-Dichloropropene	ND		ug/kg	0.34	0.11	1
Bromoform	ND		ug/kg	2.7	0.16	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.34	0.11	1
Benzene	ND		ug/kg	0.34	0.11	1
Toluene	ND		ug/kg	0.67	0.37	1
Ethylbenzene	ND		ug/kg	0.67	0.10	1
Chloromethane	ND		ug/kg	2.7	0.63	1
Bromomethane	ND		ug/kg	1.3	0.39	1
Vinyl chloride	ND		ug/kg	0.67	0.22	1
Chloroethane	ND		ug/kg	1.3	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.67	0.16	1
trans-1,2-Dichloroethene	ND		ug/kg	1.0	0.09	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-03 Date Collected: 08/15/18 11:20

Client ID: B4-S3 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.34	0.09	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	0.10	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.3	0.14	1
p/m-Xylene	ND		ug/kg	1.3	0.38	1
o-Xylene	ND		ug/kg	0.67	0.20	1
Xylenes, Total	ND		ug/kg	0.67	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	0.67	0.12	1
1,2-Dichloroethene, Total	ND		ug/kg	0.67	0.09	1
Dibromomethane	ND		ug/kg	1.3	0.16	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	0.09	1
Styrene	ND		ug/kg	0.67	0.13	1
Dichlorodifluoromethane	ND		ug/kg	6.7	0.62	1
Acetone	ND		ug/kg	6.7	3.2	1
Carbon disulfide	ND		ug/kg	6.7	3.1	1
2-Butanone	ND		ug/kg	6.7	1.5	1
4-Methyl-2-pentanone	ND		ug/kg	6.7	0.86	1
2-Hexanone	ND		ug/kg	6.7	0.80	1
Bromochloromethane	ND		ug/kg	1.3	0.14	1
Tetrahydrofuran	ND		ug/kg	2.7	1.1	1
2,2-Dichloropropane	ND		ug/kg	1.3	0.14	1
1,2-Dibromoethane	ND		ug/kg	0.67	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.34	0.09	1
Bromobenzene	ND		ug/kg	1.3	0.10	1
n-Butylbenzene	ND		ug/kg	0.67	0.11	1
sec-Butylbenzene	ND		ug/kg	0.67	0.10	1
tert-Butylbenzene	ND		ug/kg	1.3	0.08	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.3	0.12	1
o-Chlorotoluene	ND		ug/kg	1.3	0.13	1
p-Chlorotoluene	ND		ug/kg	1.3	0.07	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.0	0.67	1
Hexachlorobutadiene	ND		ug/kg	2.7	0.11	1
Isopropylbenzene	ND		ug/kg	0.67	0.07	1
p-Isopropyltoluene	ND		ug/kg	0.67	0.07	1
Naphthalene	ND		ug/kg	2.7	0.44	1
n-Propylbenzene	ND		ug/kg	0.67	0.12	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-03 Date Collected: 08/15/18 11:20

Client ID: B4-S3 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	0.22	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	0.13	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	0.22	1
Ethyl ether	ND		ug/kg	1.3	0.23	1
Isopropyl Ether	ND		ug/kg	1.3	0.14	1
Tert-Butyl Alcohol	ND		ug/kg	13	3.5	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.3	0.09	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.3	0.12	1
1,4-Dioxane	ND		ug/kg	67	24.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	106		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-05
Client ID: B9-S2
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 13:30
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/25/18 12:50
Analyst: AD
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	3.5	1.6	1
1,1-Dichloroethane	ND		ug/kg	0.69	0.10	1
Chloroform	ND		ug/kg	1.0	0.10	1
Carbon tetrachloride	ND		ug/kg	0.69	0.16	1
1,2-Dichloropropane	ND		ug/kg	0.69	0.09	1
Dibromochloromethane	ND		ug/kg	0.69	0.10	1
1,1,2-Trichloroethane	ND		ug/kg	0.69	0.18	1
Tetrachloroethene	ND		ug/kg	0.35	0.14	1
Chlorobenzene	ND		ug/kg	0.35	0.09	1
Trichlorofluoromethane	ND		ug/kg	2.8	0.48	1
1,2-Dichloroethane	ND		ug/kg	0.69	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	0.35	0.12	1
Bromodichloromethane	ND		ug/kg	0.35	0.08	1
trans-1,3-Dichloropropene	ND		ug/kg	0.69	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.35	0.11	1
1,3-Dichloropropene, Total	ND		ug/kg	0.35	0.11	1
1,1-Dichloropropene	ND		ug/kg	0.35	0.11	1
Bromoform	ND		ug/kg	2.8	0.17	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.35	0.11	1
Benzene	ND		ug/kg	0.35	0.11	1
Toluene	ND		ug/kg	0.69	0.38	1
Ethylbenzene	ND		ug/kg	0.69	0.10	1
Chloromethane	ND		ug/kg	2.8	0.64	1
Bromomethane	ND		ug/kg	1.4	0.40	1
Vinyl chloride	ND		ug/kg	0.69	0.23	1
Chloroethane	ND		ug/kg	1.4	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.69	0.16	1
trans-1,2-Dichloroethene	ND		ug/kg	1.0	0.10	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-05 Date Collected: 08/15/18 13:30

Client ID: B9-S2 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.35	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	1.4	0.10	1
1,3-Dichlorobenzene	ND		ug/kg	1.4	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	1.4	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.4	0.14	1
p/m-Xylene	ND		ug/kg	1.4	0.39	1
o-Xylene	ND		ug/kg	0.69	0.20	1
Xylenes, Total	ND		ug/kg	0.69	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	0.69	0.12	1
1,2-Dichloroethene, Total	ND		ug/kg	0.69	0.10	1
Dibromomethane	ND		ug/kg	1.4	0.16	1
1,2,3-Trichloropropane	ND		ug/kg	1.4	0.09	1
Styrene	ND		ug/kg	0.69	0.14	1
Dichlorodifluoromethane	ND		ug/kg	6.9	0.63	1
Acetone	ND		ug/kg	6.9	3.3	1
Carbon disulfide	ND		ug/kg	6.9	3.1	1
2-Butanone	ND		ug/kg	6.9	1.5	1
4-Methyl-2-pentanone	ND		ug/kg	6.9	0.88	1
2-Hexanone	ND		ug/kg	6.9	0.82	1
Bromochloromethane	ND		ug/kg	1.4	0.14	1
Tetrahydrofuran	ND		ug/kg	2.8	1.1	1
2,2-Dichloropropane	ND		ug/kg	1.4	0.14	1
1,2-Dibromoethane	ND		ug/kg	0.69	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.35	0.09	1
Bromobenzene	ND		ug/kg	1.4	0.10	1
n-Butylbenzene	ND		ug/kg	0.69	0.12	1
sec-Butylbenzene	ND		ug/kg	0.69	0.10	1
tert-Butylbenzene	ND		ug/kg	1.4	0.08	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.4	0.12	1
o-Chlorotoluene	ND		ug/kg	1.4	0.13	1
p-Chlorotoluene	ND		ug/kg	1.4	0.08	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.1	0.69	1
Hexachlorobutadiene	ND		ug/kg	2.8	0.12	1
Isopropylbenzene	ND		ug/kg	0.69	0.08	1
p-Isopropyltoluene	ND		ug/kg	0.69	0.08	1
Naphthalene	ND		ug/kg	2.8	0.45	1
n-Propylbenzene	ND		ug/kg	0.69	0.12	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-05 Date Collected: 08/15/18 13:30

Client ID: B9-S2 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.4	0.22	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.4	0.19	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.4	0.13	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.4	0.23	1
Ethyl ether	ND		ug/kg	1.4	0.24	1
Isopropyl Ether	ND		ug/kg	1.4	0.15	1
Tert-Butyl Alcohol	ND		ug/kg	14	3.6	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.4	0.09	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.4	0.12	1
1,4-Dioxane	ND		ug/kg	69	24.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	109		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-07
Client ID: B13-S5
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 09:40
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/27/18 22:56
Analyst: MV
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	2.5	1.1	1
1,1-Dichloroethane	ND		ug/kg	0.50	0.07	1
Chloroform	ND		ug/kg	0.75	0.07	1
Carbon tetrachloride	ND		ug/kg	0.50	0.12	1
1,2-Dichloropropane	ND		ug/kg	0.50	0.06	1
Dibromochloromethane	ND		ug/kg	0.50	0.07	1
1,1,2-Trichloroethane	ND		ug/kg	0.50	0.13	1
Tetrachloroethene	ND		ug/kg	0.25	0.10	1
Chlorobenzene	ND		ug/kg	0.25	0.06	1
Trichlorofluoromethane	ND		ug/kg	2.0	0.35	1
1,2-Dichloroethane	ND		ug/kg	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	0.25	0.08	1
Bromodichloromethane	ND		ug/kg	0.25	0.06	1
trans-1,3-Dichloropropene	ND		ug/kg	0.50	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	0.25	0.08	1
1,3-Dichloropropene, Total	ND		ug/kg	0.25	0.08	1
1,1-Dichloropropene	ND		ug/kg	0.25	0.08	1
Bromoform	ND		ug/kg	2.0	0.12	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.25	0.08	1
Benzene	0.09	J	ug/kg	0.25	0.08	1
Toluene	ND		ug/kg	0.50	0.27	1
Ethylbenzene	ND		ug/kg	0.50	0.07	1
Chloromethane	ND		ug/kg	2.0	0.47	1
Bromomethane	ND		ug/kg	1.0	0.29	1
Vinyl chloride	ND		ug/kg	0.50	0.17	1
Chloroethane	ND		ug/kg	1.0	0.23	1
1,1-Dichloroethene	ND		ug/kg	0.50	0.12	1
trans-1,2-Dichloroethene	ND		ug/kg	0.75	0.07	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-07 Date Collected: 08/15/18 09:40

Client ID: B13-S5 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.25	0.07	1
1,2-Dichlorobenzene	ND		ug/kg	1.0	0.07	1
1,3-Dichlorobenzene	ND		ug/kg	1.0	0.07	1
1,4-Dichlorobenzene	ND		ug/kg	1.0	0.09	1
Methyl tert butyl ether	ND		ug/kg	1.0	0.10	1
p/m-Xylene	ND		ug/kg	1.0	0.28	1
o-Xylene	ND		ug/kg	0.50	0.14	1
Xylenes, Total	ND		ug/kg	0.50	0.14	1
cis-1,2-Dichloroethene	ND		ug/kg	0.50	0.09	1
1,2-Dichloroethene, Total	ND		ug/kg	0.50	0.07	1
Dibromomethane	ND		ug/kg	1.0	0.12	1
1,2,3-Trichloropropane	ND		ug/kg	1.0	0.06	1
Styrene	ND		ug/kg	0.50	0.10	1
Dichlorodifluoromethane	ND		ug/kg	5.0	0.46	1
Acetone	4.1	J	ug/kg	5.0	2.4	1
Carbon disulfide	ND		ug/kg	5.0	2.3	1
2-Butanone	ND		ug/kg	5.0	1.1	1
4-Methyl-2-pentanone	ND		ug/kg	5.0	0.64	1
2-Hexanone	ND		ug/kg	5.0	0.59	1
Bromochloromethane	ND		ug/kg	1.0	0.10	1
Tetrahydrofuran	ND		ug/kg	2.0	0.80	1
2,2-Dichloropropane	ND		ug/kg	1.0	0.10	1
1,2-Dibromoethane	ND		ug/kg	0.50	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.25	0.07	1
Bromobenzene	ND		ug/kg	1.0	0.07	1
n-Butylbenzene	ND		ug/kg	0.50	0.08	1
sec-Butylbenzene	ND		ug/kg	0.50	0.07	1
tert-Butylbenzene	ND		ug/kg	1.0	0.06	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.0	0.09	1
o-Chlorotoluene	ND		ug/kg	1.0	0.10	1
p-Chlorotoluene	ND		ug/kg	1.0	0.05	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.5	0.50	1
Hexachlorobutadiene	ND		ug/kg	2.0	0.09	1
Isopropylbenzene	ND		ug/kg	0.50	0.06	1
p-Isopropyltoluene	ND		ug/kg	0.50	0.06	1
Naphthalene	ND		ug/kg	2.0	0.32	1
n-Propylbenzene	ND		ug/kg	0.50	0.09	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-07 Date Collected: 08/15/18 09:40

Client ID: B13-S5 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.0	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.0	0.14	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.0	0.10	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.0	0.17	1
Ethyl ether	ND		ug/kg	1.0	0.17	1
Isopropyl Ether	ND		ug/kg	1.0	0.11	1
Tert-Butyl Alcohol	ND		ug/kg	10	2.6	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.0	0.06	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.0	0.09	1
1,4-Dioxane	ND		ug/kg	50	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-08
Client ID: B16-S4
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 14:45
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/25/18 13:17
Analyst: AD
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	3.0	1.4	1
1,1-Dichloroethane	ND		ug/kg	0.60	0.09	1
Chloroform	ND		ug/kg	0.90	0.08	1
Carbon tetrachloride	ND		ug/kg	0.60	0.14	1
1,2-Dichloropropane	ND		ug/kg	0.60	0.08	1
Dibromochloromethane	ND		ug/kg	0.60	0.08	1
1,1,2-Trichloroethane	ND		ug/kg	0.60	0.16	1
Tetrachloroethene	ND		ug/kg	0.30	0.12	1
Chlorobenzene	ND		ug/kg	0.30	0.08	1
Trichlorofluoromethane	ND		ug/kg	2.4	0.42	1
1,2-Dichloroethane	ND		ug/kg	0.60	0.15	1
1,1,1-Trichloroethane	ND		ug/kg	0.30	0.10	1
Bromodichloromethane	ND		ug/kg	0.30	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.60	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	0.30	0.09	1
1,3-Dichloropropene, Total	ND		ug/kg	0.30	0.09	1
1,1-Dichloropropene	ND		ug/kg	0.30	0.10	1
Bromoform	ND		ug/kg	2.4	0.15	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.30	0.10	1
Benzene	ND		ug/kg	0.30	0.10	1
Toluene	ND		ug/kg	0.60	0.32	1
Ethylbenzene	ND		ug/kg	0.60	0.08	1
Chloromethane	ND		ug/kg	2.4	0.56	1
Bromomethane	ND		ug/kg	1.2	0.35	1
Vinyl chloride	ND		ug/kg	0.60	0.20	1
Chloroethane	ND		ug/kg	1.2	0.27	1
1,1-Dichloroethene	ND		ug/kg	0.60	0.14	1
trans-1,2-Dichloroethene	ND		ug/kg	0.90	0.08	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-08 Date Collected: 08/15/18 14:45

Client ID: B16-S4 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.30	0.08	1
1,2-Dichlorobenzene	ND		ug/kg	1.2	0.09	1
1,3-Dichlorobenzene	ND		ug/kg	1.2	0.09	1
1,4-Dichlorobenzene	ND		ug/kg	1.2	0.10	1
Methyl tert butyl ether	ND		ug/kg	1.2	0.12	1
p/m-Xylene	ND		ug/kg	1.2	0.33	1
o-Xylene	ND		ug/kg	0.60	0.17	1
Xylenes, Total	ND		ug/kg	0.60	0.17	1
cis-1,2-Dichloroethene	ND		ug/kg	0.60	0.10	1
1,2-Dichloroethene, Total	ND		ug/kg	0.60	0.08	1
Dibromomethane	ND		ug/kg	1.2	0.14	1
1,2,3-Trichloropropane	ND		ug/kg	1.2	0.08	1
Styrene	ND		ug/kg	0.60	0.12	1
Dichlorodifluoromethane	ND		ug/kg	6.0	0.55	1
Acetone	ND		ug/kg	6.0	2.9	1
Carbon disulfide	ND		ug/kg	6.0	2.7	1
2-Butanone	ND		ug/kg	6.0	1.3	1
4-Methyl-2-pentanone	ND		ug/kg	6.0	0.76	1
2-Hexanone	ND		ug/kg	6.0	0.70	1
Bromochloromethane	ND		ug/kg	1.2	0.12	1
Tetrahydrofuran	ND		ug/kg	2.4	0.95	1
2,2-Dichloropropane	ND		ug/kg	1.2	0.12	1
1,2-Dibromoethane	ND		ug/kg	0.60	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.30	0.08	1
Bromobenzene	ND		ug/kg	1.2	0.09	1
n-Butylbenzene	ND		ug/kg	0.60	0.10	1
sec-Butylbenzene	ND		ug/kg	0.60	0.09	1
tert-Butylbenzene	ND		ug/kg	1.2	0.07	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.2	0.10	1
o-Chlorotoluene	ND		ug/kg	1.2	0.11	1
p-Chlorotoluene	ND		ug/kg	1.2	0.06	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.8	0.60	1
Hexachlorobutadiene	ND		ug/kg	2.4	0.10	1
Isopropylbenzene	ND		ug/kg	0.60	0.07	1
p-Isopropyltoluene	ND		ug/kg	0.60	0.07	1
Naphthalene	ND		ug/kg	2.4	0.39	1
n-Propylbenzene	ND		ug/kg	0.60	0.10	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-08 Date Collected: 08/15/18 14:45

Client ID: B16-S4 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.2	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.2	0.16	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.2	0.12	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.2	0.20	1
Ethyl ether	ND		ug/kg	1.2	0.20	1
Isopropyl Ether	ND		ug/kg	1.2	0.13	1
Tert-Butyl Alcohol	ND		ug/kg	12	3.1	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.2	0.08	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.2	0.10	1
1,4-Dioxane	ND		ug/kg	60	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	113		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-09 Date Collected: 08/15/18 12:30
Client ID: B17-S3 Date Received: 08/16/18
Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/25/18 13:43
Analyst: AD
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	3.0	1.4	1
1,1-Dichloroethane	ND		ug/kg	0.59	0.09	1
Chloroform	ND		ug/kg	0.89	0.08	1
Carbon tetrachloride	ND		ug/kg	0.59	0.14	1
1,2-Dichloropropane	ND		ug/kg	0.59	0.07	1
Dibromochloromethane	ND		ug/kg	0.59	0.08	1
1,1,2-Trichloroethane	ND		ug/kg	0.59	0.16	1
Tetrachloroethene	ND		ug/kg	0.30	0.12	1
Chlorobenzene	ND		ug/kg	0.30	0.08	1
Trichlorofluoromethane	ND		ug/kg	2.4	0.41	1
1,2-Dichloroethane	ND		ug/kg	0.59	0.15	1
1,1,1-Trichloroethane	ND		ug/kg	0.30	0.10	1
Bromodichloromethane	ND		ug/kg	0.30	0.06	1
trans-1,3-Dichloropropene	ND		ug/kg	0.59	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	0.30	0.09	1
1,3-Dichloropropene, Total	ND		ug/kg	0.30	0.09	1
1,1-Dichloropropene	ND		ug/kg	0.30	0.09	1
Bromoform	ND		ug/kg	2.4	0.14	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.30	0.10	1
Benzene	ND		ug/kg	0.30	0.10	1
Toluene	ND		ug/kg	0.59	0.32	1
Ethylbenzene	ND		ug/kg	0.59	0.08	1
Chloromethane	ND		ug/kg	2.4	0.55	1
Bromomethane	ND		ug/kg	1.2	0.34	1
Vinyl chloride	ND		ug/kg	0.59	0.20	1
Chloroethane	ND		ug/kg	1.2	0.27	1
1,1-Dichloroethene	ND		ug/kg	0.59	0.14	1
trans-1,2-Dichloroethene	ND		ug/kg	0.89	0.08	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-09 Date Collected: 08/15/18 12:30

Client ID: B17-S3 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.30	0.08	1
1,2-Dichlorobenzene	ND		ug/kg	1.2	0.09	1
1,3-Dichlorobenzene	ND		ug/kg	1.2	0.09	1
1,4-Dichlorobenzene	ND		ug/kg	1.2	0.10	1
Methyl tert butyl ether	ND		ug/kg	1.2	0.12	1
p/m-Xylene	ND		ug/kg	1.2	0.33	1
o-Xylene	ND		ug/kg	0.59	0.17	1
Xylenes, Total	ND		ug/kg	0.59	0.17	1
cis-1,2-Dichloroethene	ND		ug/kg	0.59	0.10	1
1,2-Dichloroethene, Total	ND		ug/kg	0.59	0.08	1
Dibromomethane	ND		ug/kg	1.2	0.14	1
1,2,3-Trichloropropane	ND		ug/kg	1.2	0.08	1
Styrene	ND		ug/kg	0.59	0.12	1
Dichlorodifluoromethane	ND		ug/kg	5.9	0.54	1
Acetone	ND		ug/kg	5.9	2.8	1
Carbon disulfide	ND		ug/kg	5.9	2.7	1
2-Butanone	ND		ug/kg	5.9	1.3	1
4-Methyl-2-pentanone	ND		ug/kg	5.9	0.76	1
2-Hexanone	ND		ug/kg	5.9	0.70	1
Bromochloromethane	ND		ug/kg	1.2	0.12	1
Tetrahydrofuran	ND		ug/kg	2.4	0.94	1
2,2-Dichloropropane	ND		ug/kg	1.2	0.12	1
1,2-Dibromoethane	ND		ug/kg	0.59	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.30	0.08	1
Bromobenzene	ND		ug/kg	1.2	0.09	1
n-Butylbenzene	ND		ug/kg	0.59	0.10	1
sec-Butylbenzene	ND		ug/kg	0.59	0.09	1
tert-Butylbenzene	ND		ug/kg	1.2	0.07	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.2	0.10	1
o-Chlorotoluene	ND		ug/kg	1.2	0.11	1
p-Chlorotoluene	ND		ug/kg	1.2	0.06	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.8	0.59	1
Hexachlorobutadiene	ND		ug/kg	2.4	0.10	1
Isopropylbenzene	ND		ug/kg	0.59	0.06	1
p-Isopropyltoluene	ND		ug/kg	0.59	0.06	1
Naphthalene	ND		ug/kg	2.4	0.38	1
n-Propylbenzene	ND		ug/kg	0.59	0.10	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-09 Date Collected: 08/15/18 12:30

Client ID: B17-S3 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.2	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.2	0.16	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.2	0.11	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.2	0.20	1
Ethyl ether	ND		ug/kg	1.2	0.20	1
Isopropyl Ether	ND		ug/kg	1.2	0.13	1
Tert-Butyl Alcohol	ND		ug/kg	12	3.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.2	0.08	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.2	0.10	1
1,4-Dioxane	ND		ug/kg	59	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	109		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-10
Client ID: B18-S3
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 16:05
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/25/18 14:09
Analyst: AD
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	2.9	1.3	1
1,1-Dichloroethane	ND		ug/kg	0.58	0.08	1
Chloroform	ND		ug/kg	0.87	0.08	1
Carbon tetrachloride	ND		ug/kg	0.58	0.13	1
1,2-Dichloropropane	ND		ug/kg	0.58	0.07	1
Dibromochloromethane	ND		ug/kg	0.58	0.08	1
1,1,2-Trichloroethane	ND		ug/kg	0.58	0.16	1
Tetrachloroethene	ND		ug/kg	0.29	0.11	1
Chlorobenzene	ND		ug/kg	0.29	0.07	1
Trichlorofluoromethane	ND		ug/kg	2.3	0.40	1
1,2-Dichloroethane	ND		ug/kg	0.58	0.15	1
1,1,1-Trichloroethane	ND		ug/kg	0.29	0.10	1
Bromodichloromethane	ND		ug/kg	0.29	0.06	1
trans-1,3-Dichloropropene	ND		ug/kg	0.58	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	0.29	0.09	1
1,3-Dichloropropene, Total	ND		ug/kg	0.29	0.09	1
1,1-Dichloropropene	ND		ug/kg	0.29	0.09	1
Bromoform	ND		ug/kg	2.3	0.14	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.29	0.10	1
Benzene	ND		ug/kg	0.29	0.10	1
Toluene	ND		ug/kg	0.58	0.32	1
Ethylbenzene	ND		ug/kg	0.58	0.08	1
Chloromethane	ND		ug/kg	2.3	0.54	1
Bromomethane	ND		ug/kg	1.2	0.34	1
Vinyl chloride	ND		ug/kg	0.58	0.19	1
Chloroethane	ND		ug/kg	1.2	0.26	1
1,1-Dichloroethene	ND		ug/kg	0.58	0.14	1
trans-1,2-Dichloroethene	ND		ug/kg	0.87	0.08	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-10 Date Collected: 08/15/18 16:05

Client ID: B18-S3 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.29	0.08	1
1,2-Dichlorobenzene	ND		ug/kg	1.2	0.08	1
1,3-Dichlorobenzene	ND		ug/kg	1.2	0.09	1
1,4-Dichlorobenzene	ND		ug/kg	1.2	0.10	1
Methyl tert butyl ether	ND		ug/kg	1.2	0.12	1
p/m-Xylene	ND		ug/kg	1.2	0.32	1
o-Xylene	ND		ug/kg	0.58	0.17	1
Xylenes, Total	ND		ug/kg	0.58	0.17	1
cis-1,2-Dichloroethene	ND		ug/kg	0.58	0.10	1
1,2-Dichloroethene, Total	ND		ug/kg	0.58	0.08	1
Dibromomethane	ND		ug/kg	1.2	0.14	1
1,2,3-Trichloropropane	ND		ug/kg	1.2	0.07	1
Styrene	ND		ug/kg	0.58	0.11	1
Dichlorodifluoromethane	ND		ug/kg	5.8	0.53	1
Acetone	9.3		ug/kg	5.8	2.8	1
Carbon disulfide	ND		ug/kg	5.8	2.6	1
2-Butanone	ND		ug/kg	5.8	1.3	1
4-Methyl-2-pentanone	ND		ug/kg	5.8	0.74	1
2-Hexanone	ND		ug/kg	5.8	0.68	1
Bromochloromethane	ND		ug/kg	1.2	0.12	1
Tetrahydrofuran	ND		ug/kg	2.3	0.92	1
2,2-Dichloropropane	ND		ug/kg	1.2	0.12	1
1,2-Dibromoethane	ND		ug/kg	0.58	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.29	0.08	1
Bromobenzene	ND		ug/kg	1.2	0.08	1
n-Butylbenzene	ND		ug/kg	0.58	0.10	1
sec-Butylbenzene	ND		ug/kg	0.58	0.09	1
tert-Butylbenzene	ND		ug/kg	1.2	0.07	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.2	0.10	1
o-Chlorotoluene	ND		ug/kg	1.2	0.11	1
p-Chlorotoluene	ND		ug/kg	1.2	0.06	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.7	0.58	1
Hexachlorobutadiene	ND		ug/kg	2.3	0.10	1
Isopropylbenzene	ND		ug/kg	0.58	0.06	1
p-Isopropyltoluene	ND		ug/kg	0.58	0.06	1
Naphthalene	ND		ug/kg	2.3	0.38	1
n-Propylbenzene	ND		ug/kg	0.58	0.10	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-10 Date Collected: 08/15/18 16:05

Client ID: B18-S3 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.2	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.2	0.16	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.2	0.11	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.2	0.19	1
Ethyl ether	ND		ug/kg	1.2	0.20	1
Isopropyl Ether	ND		ug/kg	1.2	0.12	1
Tert-Butyl Alcohol	ND		ug/kg	12	3.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.2	0.07	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.2	0.10	1
1,4-Dioxane	ND		ug/kg	58	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	112		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-11
Client ID: B19-S2
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 16:45
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/26/18 18:11
Analyst: JC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.1	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.82	0.12	1
Chloroform	ND		ug/kg	1.2	0.11	1
Carbon tetrachloride	ND		ug/kg	0.82	0.19	1
1,2-Dichloropropane	ND		ug/kg	0.82	0.10	1
Dibromochloromethane	ND		ug/kg	0.82	0.11	1
1,1,2-Trichloroethane	ND		ug/kg	0.82	0.22	1
Tetrachloroethene	ND		ug/kg	0.41	0.16	1
Chlorobenzene	ND		ug/kg	0.41	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.3	0.57	1
1,2-Dichloroethane	ND		ug/kg	0.82	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.41	0.14	1
Bromodichloromethane	ND		ug/kg	0.41	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.82	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	0.41	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	0.41	0.13	1
1,1-Dichloropropene	ND		ug/kg	0.41	0.13	1
Bromoform	ND		ug/kg	3.3	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.41	0.14	1
Benzene	ND		ug/kg	0.41	0.14	1
Toluene	ND		ug/kg	0.82	0.44	1
Ethylbenzene	ND		ug/kg	0.82	0.12	1
Chloromethane	ND		ug/kg	3.3	0.76	1
Bromomethane	ND		ug/kg	1.6	0.48	1
Vinyl chloride	ND		ug/kg	0.82	0.27	1
Chloroethane	ND		ug/kg	1.6	0.37	1
1,1-Dichloroethene	ND		ug/kg	0.82	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.11	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-11 Date Collected: 08/15/18 16:45

Client ID: B19-S2 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.41	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.16	1
p/m-Xylene	ND		ug/kg	1.6	0.46	1
o-Xylene	ND		ug/kg	0.82	0.24	1
Xylenes, Total	ND		ug/kg	0.82	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	0.82	0.14	1
1,2-Dichloroethene, Total	ND		ug/kg	0.82	0.11	1
Dibromomethane	ND		ug/kg	1.6	0.20	1
1,2,3-Trichloropropane	ND		ug/kg	1.6	0.10	1
Styrene	ND		ug/kg	0.82	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.2	0.75	1
Acetone	4.2	J	ug/kg	8.2	3.9	1
Carbon disulfide	ND		ug/kg	8.2	3.7	1
2-Butanone	ND		ug/kg	8.2	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.2	1.0	1
2-Hexanone	ND		ug/kg	8.2	0.97	1
Bromochloromethane	ND		ug/kg	1.6	0.17	1
Tetrahydrofuran	ND		ug/kg	3.3	1.3	1
2,2-Dichloropropane	ND		ug/kg	1.6	0.16	1
1,2-Dibromoethane	ND		ug/kg	0.82	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.41	0.11	1
Bromobenzene	ND		ug/kg	1.6	0.12	1
n-Butylbenzene	ND		ug/kg	0.82	0.14	1
sec-Butylbenzene	ND		ug/kg	0.82	0.12	1
tert-Butylbenzene	ND		ug/kg	1.6	0.10	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.6	0.14	1
o-Chlorotoluene	ND		ug/kg	1.6	0.16	1
p-Chlorotoluene	ND		ug/kg	1.6	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	0.82	1
Hexachlorobutadiene	ND		ug/kg	3.3	0.14	1
Isopropylbenzene	ND		ug/kg	0.82	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.82	0.09	1
Naphthalene	ND		ug/kg	3.3	0.53	1
n-Propylbenzene	ND		ug/kg	0.82	0.14	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-11 Date Collected: 08/15/18 16:45

Client ID: B19-S2 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	0.27	1
Ethyl ether	ND		ug/kg	1.6	0.28	1
Isopropyl Ether	ND		ug/kg	1.6	0.17	1
Tert-Butyl Alcohol	ND		ug/kg	16	4.2	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.6	0.10	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.6	0.14	1
1,4-Dioxane	ND		ug/kg	82	29.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	111		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-13
Client ID: B21-S4
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 10:30
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/25/18 15:01
Analyst: AD
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	3.3	1.5	1
1,1-Dichloroethane	ND		ug/kg	0.67	0.10	1
Chloroform	ND		ug/kg	1.0	0.09	1
Carbon tetrachloride	ND		ug/kg	0.67	0.15	1
1,2-Dichloropropane	ND		ug/kg	0.67	0.08	1
Dibromochloromethane	ND		ug/kg	0.67	0.09	1
1,1,2-Trichloroethane	ND		ug/kg	0.67	0.18	1
Tetrachloroethene	ND		ug/kg	0.33	0.13	1
Chlorobenzene	ND		ug/kg	0.33	0.09	1
Trichlorofluoromethane	ND		ug/kg	2.7	0.46	1
1,2-Dichloroethane	ND		ug/kg	0.67	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	0.33	0.11	1
Bromodichloromethane	ND		ug/kg	0.33	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.67	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.33	0.10	1
1,3-Dichloropropene, Total	ND		ug/kg	0.33	0.10	1
1,1-Dichloropropene	ND		ug/kg	0.33	0.10	1
Bromoform	ND		ug/kg	2.7	0.16	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.33	0.11	1
Benzene	ND		ug/kg	0.33	0.11	1
Toluene	0.36	J	ug/kg	0.67	0.36	1
Ethylbenzene	ND		ug/kg	0.67	0.09	1
Chloromethane	ND		ug/kg	2.7	0.62	1
Bromomethane	ND		ug/kg	1.3	0.39	1
Vinyl chloride	ND		ug/kg	0.67	0.22	1
Chloroethane	ND		ug/kg	1.3	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.67	0.16	1
trans-1,2-Dichloroethene	ND		ug/kg	1.0	0.09	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-13 Date Collected: 08/15/18 10:30

Client ID: B21-S4 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.33	0.09	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	0.10	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	0.11	1
Methyl tert butyl ether	ND		ug/kg	1.3	0.13	1
p/m-Xylene	ND		ug/kg	1.3	0.37	1
o-Xylene	ND		ug/kg	0.67	0.19	1
Xylenes, Total	ND		ug/kg	0.67	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	0.67	0.12	1
1,2-Dichloroethene, Total	ND		ug/kg	0.67	0.09	1
Dibromomethane	ND		ug/kg	1.3	0.16	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	0.09	1
Styrene	ND		ug/kg	0.67	0.13	1
Dichlorodifluoromethane	ND		ug/kg	6.7	0.61	1
Acetone	4.9	J	ug/kg	6.7	3.2	1
Carbon disulfide	ND		ug/kg	6.7	3.0	1
2-Butanone	ND		ug/kg	6.7	1.5	1
4-Methyl-2-pentanone	ND		ug/kg	6.7	0.85	1
2-Hexanone	ND		ug/kg	6.7	0.79	1
Bromochloromethane	ND		ug/kg	1.3	0.14	1
Tetrahydrofuran	ND		ug/kg	2.7	1.0	1
2,2-Dichloropropane	ND		ug/kg	1.3	0.13	1
1,2-Dibromoethane	ND		ug/kg	0.67	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.33	0.09	1
Bromobenzene	ND		ug/kg	1.3	0.10	1
n-Butylbenzene	ND		ug/kg	0.67	0.11	1
sec-Butylbenzene	ND		ug/kg	0.67	0.10	1
tert-Butylbenzene	ND		ug/kg	1.3	0.08	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.3	0.12	1
o-Chlorotoluene	ND		ug/kg	1.3	0.13	1
p-Chlorotoluene	ND		ug/kg	1.3	0.07	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.0	0.66	1
Hexachlorobutadiene	ND		ug/kg	2.7	0.11	1
Isopropylbenzene	ND		ug/kg	0.67	0.07	1
p-Isopropyltoluene	ND		ug/kg	0.67	0.07	1
Naphthalene	ND		ug/kg	2.7	0.43	1
n-Propylbenzene	ND		ug/kg	0.67	0.11	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-13 Date Collected: 08/15/18 10:30

Client ID: B21-S4 Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	0.13	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	0.22	1
Ethyl ether	ND		ug/kg	1.3	0.23	1
Isopropyl Ether	ND		ug/kg	1.3	0.14	1
Tert-Butyl Alcohol	ND		ug/kg	13	3.4	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.3	0.09	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.3	0.12	1
1,4-Dioxane	ND		ug/kg	67	23.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	111		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-24 Date Collected: 08/15/18 00:00

Client ID: TRIP BLANK Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 08/25/18 15:27

Analyst: AD

Percent Solids: Results reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-24 Date Collected: 08/15/18 00:00

Client ID: TRIP BLANK Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	ND		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
Tetrahydrofuran	ND		ug/kg	4.0	1.6	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
1,3,5-Trichlorobenzene	ND		ug/kg	2.0	0.17	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
n-Propylbenzene	ND		ug/kg	1.0	0.17	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-24 Date Collected: 08/15/18 00:00

Client ID: TRIP BLANK Date Received: 08/16/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
Isopropyl Ether	ND		ug/kg	2.0	0.21	1
Tert-Butyl Alcohol	ND		ug/kg	20	5.1	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	0.13	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	0.18	1
1,4-Dioxane	ND		ug/kg	100	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	112		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/26/18 11:11
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 11 Batch: WG1150859-5					
Methylene chloride	2.4	J	ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/26/18 11:11
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 11 Batch: WG1150859-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
Tetrahydrofuran	ND		ug/kg	4.0	1.6
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,3,5-Trichlorobenzene	ND		ug/kg	2.0	0.17
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/26/18 11:11
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 11 Batch: WG1150859-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Ethyl ether	ND		ug/kg	2.0	0.34
Isopropyl Ether	ND		ug/kg	2.0	0.21
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	0.13
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	0.18
1,4-Dioxane	ND		ug/kg	100	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	105		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/25/18 11:58
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 03,05,08-10,13,24 Batch: WG1150867-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/25/18 11:58
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 03,05,08-10,13,24 Batch: WG1150867-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
Tetrahydrofuran	ND		ug/kg	4.0	1.6
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,3,5-Trichlorobenzene	ND		ug/kg	2.0	0.17
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/25/18 11:58
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 03,05,08-10,13,24 Batch: WG1150867-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Ethyl ether	ND		ug/kg	2.0	0.34
Isopropyl Ether	ND		ug/kg	2.0	0.21
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	0.13
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	0.18
1,4-Dioxane	ND		ug/kg	100	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	110		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/27/18 20:45
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01,07 Batch: WG1151231-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/27/18 20:45
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01,07 Batch: WG1151231-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
Tetrahydrofuran	ND		ug/kg	4.0	1.6
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,3,5-Trichlorobenzene	ND		ug/kg	2.0	0.17
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/27/18 20:45
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01,07 Batch: WG1151231-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Ethyl ether	ND		ug/kg	2.0	0.34
Isopropyl Ether	ND		ug/kg	2.0	0.21
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	0.13
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	0.18
1,4-Dioxane	ND		ug/kg	100	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 11 Batch: WG1150859-3 WG1150859-4								
Methylene chloride	114		116		70-130	2		30
1,1-Dichloroethane	120		119		70-130	1		30
Chloroform	108		110		70-130	2		30
Carbon tetrachloride	110		108		70-130	2		30
1,2-Dichloropropane	113		115		70-130	2		30
Dibromochloromethane	98		98		70-130	0		30
1,1,2-Trichloroethane	106		109		70-130	3		30
Tetrachloroethene	94		97		70-130	3		30
Chlorobenzene	96		96		70-130	0		30
Trichlorofluoromethane	96		98		70-139	2		30
1,2-Dichloroethane	118		120		70-130	2		30
1,1,1-Trichloroethane	112		112		70-130	0		30
Bromodichloromethane	113		115		70-130	2		30
trans-1,3-Dichloropropene	115		115		70-130	0		30
cis-1,3-Dichloropropene	117		117		70-130	0		30
1,1-Dichloropropene	112		109		70-130	3		30
Bromoform	109		109		70-130	0		30
1,1,2,2-Tetrachloroethane	109		109		70-130	0		30
Benzene	107		108		70-130	1		30
Toluene	101		105		70-130	4		30
Ethylbenzene	104		105		70-130	1		30
Chloromethane	112		105		52-130	6		30
Bromomethane	100		100		57-147	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 11 Batch: WG1150859-3 WG1150859-4								
Vinyl chloride	115		112		67-130	3		30
Chloroethane	117		113		50-151	3		30
1,1-Dichloroethene	104		106		65-135	2		30
trans-1,2-Dichloroethene	108		106		70-130	2		30
Trichloroethene	107		107		70-130	0		30
1,2-Dichlorobenzene	97		97		70-130	0		30
1,3-Dichlorobenzene	98		96		70-130	2		30
1,4-Dichlorobenzene	94		93		70-130	1		30
Methyl tert butyl ether	106		106		66-130	0		30
p/m-Xylene	102		102		70-130	0		30
o-Xylene	99		100		70-130	1		30
cis-1,2-Dichloroethene	103		104		70-130	1		30
Dibromomethane	103		108		70-130	5		30
1,2,3-Trichloropropane	117		115		68-130	2		30
Styrene	98		98		70-130	0		30
Dichlorodifluoromethane	97		95		30-146	2		30
Acetone	129		132		54-140	2		30
Carbon disulfide	107		109		59-130	2		30
2-Butanone	81		**68**	Q	70-130	17		30
4-Methyl-2-pentanone	95		100		70-130	5		30
2-Hexanone	73		85		70-130	15		30
Bromochloromethane	97		94		70-130	3		30
Tetrahydrofuran	121		103		66-130	16		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 11 Batch: WG1150859-3 WG1150859-4								
2,2-Dichloropropane	128		126		70-130	2		30
1,2-Dibromoethane	95		100		70-130	5		30
1,1,1,2-Tetrachloroethane	100		99		70-130	1		30
Bromobenzene	99		96		70-130	3		30
n-Butylbenzene	114		112		70-130	2		30
sec-Butylbenzene	105		102		70-130	3		30
tert-Butylbenzene	97		95		70-130	2		30
1,3,5-Trichlorobenzene	102		99		70-139	3		30
o-Chlorotoluene	110		110		70-130	0		30
p-Chlorotoluene	112		107		70-130	5		30
1,2-Dibromo-3-chloropropane	97		103		68-130	6		30
Hexachlorobutadiene	124		125		67-130	1		30
Isopropylbenzene	103		99		70-130	4		30
p-Isopropyltoluene	97		96		70-130	1		30
Naphthalene	88		88		70-130	0		30
n-Propylbenzene	110		106		70-130	4		30
1,2,3-Trichlorobenzene	104		103		70-130	1		30
1,2,4-Trichlorobenzene	100		100		70-130	0		30
1,3,5-Trimethylbenzene	104		103		70-130	1		30
1,2,4-Trimethylbenzene	105		104		70-130	1		30
Ethyl ether	102		102		67-130	0		30
Isopropyl Ether	109		111		66-130	2		30
Tert-Butyl Alcohol	108		111		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 11 Batch: WG1150859-3 WG1150859-4								
Ethyl-Tert-Butyl-Ether	108		107		70-130	1		30
Tertiary-Amyl Methyl Ether	105		105		70-130	0		30
1,4-Dioxane	94		103		65-136	9		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	113		114		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	112		108		70-130
Dibromofluoromethane	102		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

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Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 03,05,08-10,13,24 Batch: WG1150867-3 WG1150867-4								
Methylene chloride	114		111		70-130	3		30
1,1-Dichloroethane	116		108		70-130	7		30
Chloroform	108		103		70-130	5		30
Carbon tetrachloride	106		100		70-130	6		30
1,2-Dichloropropane	110		106		70-130	4		30
Dibromochloromethane	97		94		70-130	3		30
1,1,2-Trichloroethane	104		105		70-130	1		30
Tetrachloroethene	94		91		70-130	3		30
Chlorobenzene	92		92		70-130	0		30
Trichlorofluoromethane	97		90		70-139	7		30
1,2-Dichloroethane	119		112		70-130	6		30
1,1,1-Trichloroethane	112		105		70-130	6		30
Bromodichloromethane	110		106		70-130	4		30
trans-1,3-Dichloropropene	112		107		70-130	5		30
cis-1,3-Dichloropropene	116		108		70-130	7		30
1,1-Dichloropropene	107		99		70-130	8		30
Bromoform	106		104		70-130	2		30
1,1,2,2-Tetrachloroethane	105		106		70-130	1		30
Benzene	104		100		70-130	4		30
Toluene	100		97		70-130	3		30
Ethylbenzene	100		99		70-130	1		30
Chloromethane	105		98		52-130	7		30
Bromomethane	80		82		57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

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Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 03,05,08-10,13,24 Batch: WG1150867-3 WG1150867-4								
Vinyl chloride	112		103		67-130	8		30
Chloroethane	112		108		50-151	4		30
1,1-Dichloroethene	103		96		65-135	7		30
trans-1,2-Dichloroethene	106		98		70-130	8		30
Trichloroethene	102		98		70-130	4		30
1,2-Dichlorobenzene	97		92		70-130	5		30
1,3-Dichlorobenzene	96		93		70-130	3		30
1,4-Dichlorobenzene	92		92		70-130	0		30
Methyl tert butyl ether	104		98		66-130	6		30
p/m-Xylene	99		97		70-130	2		30
o-Xylene	97		96		70-130	1		30
cis-1,2-Dichloroethene	102		96		70-130	6		30
Dibromomethane	102		102		70-130	0		30
1,2,3-Trichloropropane	111		110		68-130	1		30
Styrene	98		96		70-130	2		30
Dichlorodifluoromethane	98		90		30-146	9		30
Acetone	104		113		54-140	8		30
Carbon disulfide	107		99		59-130	8		30
2-Butanone	78		82		70-130	5		30
4-Methyl-2-pentanone	98		99		70-130	1		30
2-Hexanone	81		81		70-130	0		30
Bromochloromethane	96		90		70-130	6		30
Tetrahydrofuran	119		116		66-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 03,05,08-10,13,24 Batch: WG1150867-3 WG1150867-4								
2,2-Dichloropropane	124		118		70-130	5		30
1,2-Dibromoethane	95		95		70-130	0		30
1,1,1,2-Tetrachloroethane	100		97		70-130	3		30
Bromobenzene	95		94		70-130	1		30
n-Butylbenzene	112		107		70-130	5		30
sec-Butylbenzene	102		98		70-130	4		30
tert-Butylbenzene	94		90		70-130	4		30
1,3,5-Trichlorobenzene	101		98		70-139	3		30
o-Chlorotoluene	108		104		70-130	4		30
p-Chlorotoluene	107		104		70-130	3		30
1,2-Dibromo-3-chloropropane	94		92		68-130	2		30
Hexachlorobutadiene	124		123		67-130	1		30
Isopropylbenzene	98		94		70-130	4		30
p-Isopropyltoluene	94		92		70-130	2		30
Naphthalene	86		84		70-130	2		30
n-Propylbenzene	106		101		70-130	5		30
1,2,3-Trichlorobenzene	103		99		70-130	4		30
1,2,4-Trichlorobenzene	99		97		70-130	2		30
1,3,5-Trimethylbenzene	102		98		70-130	4		30
1,2,4-Trimethylbenzene	103		100		70-130	3		30
Ethyl ether	100		98		67-130	2		30
Isopropyl Ether	105		101		66-130	4		30
Tert-Butyl Alcohol	108		109		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 03,05,08-10,13,24 Batch: WG1150867-3 WG1150867-4								
Ethyl-Tert-Butyl-Ether	101		99		70-130	2		30
Tertiary-Amyl Methyl Ether	100		98		70-130	2		30
1,4-Dioxane	103		94		65-136	9		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	116		114		70-130
Toluene-d8	98		100		70-130
4-Bromofluorobenzene	115		111		70-130
Dibromofluoromethane	102		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01,07 Batch: WG1151231-3 WG1151231-4								
Methylene chloride	82		82		70-130	0		30
1,1-Dichloroethane	87		88		70-130	1		30
Chloroform	88		90		70-130	2		30
Carbon tetrachloride	93		93		70-130	0		30
1,2-Dichloropropane	91		92		70-130	1		30
Dibromochloromethane	95		95		70-130	0		30
1,1,2-Trichloroethane	98		98		70-130	0		30
Tetrachloroethene	91		91		70-130	0		30
Chlorobenzene	88		88		70-130	0		30
Trichlorofluoromethane	91		92		70-139	1		30
1,2-Dichloroethane	94		94		70-130	0		30
1,1,1-Trichloroethane	92		92		70-130	0		30
Bromodichloromethane	95		94		70-130	1		30
trans-1,3-Dichloropropene	90		89		70-130	1		30
cis-1,3-Dichloropropene	97		96		70-130	1		30
1,1-Dichloropropene	95		94		70-130	1		30
Bromoform	96		98		70-130	2		30
1,1,2,2-Tetrachloroethane	102		102		70-130	0		30
Benzene	88		88		70-130	0		30
Toluene	87		86		70-130	1		30
Ethylbenzene	88		87		70-130	1		30
Chloromethane	83		83		52-130	0		30
Bromomethane	76		78		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01,07 Batch: WG1151231-3 WG1151231-4								
Vinyl chloride	83		82		67-130	1		30
Chloroethane	85		84		50-151	1		30
1,1-Dichloroethene	88		89		65-135	1		30
trans-1,2-Dichloroethene	88		86		70-130	2		30
Trichloroethene	92		92		70-130	0		30
1,2-Dichlorobenzene	90		91		70-130	1		30
1,3-Dichlorobenzene	90		89		70-130	1		30
1,4-Dichlorobenzene	89		89		70-130	0		30
Methyl tert butyl ether	93		94		66-130	1		30
p/m-Xylene	88		88		70-130	0		30
o-Xylene	88		88		70-130	0		30
cis-1,2-Dichloroethene	89		88		70-130	1		30
Dibromomethane	99		98		70-130	1		30
1,2,3-Trichloropropane	100		101		68-130	1		30
Styrene	87		87		70-130	0		30
Dichlorodifluoromethane	80		78		30-146	3		30
Acetone	104		98		54-140	6		30
Carbon disulfide	83		83		59-130	0		30
2-Butanone	83		89		70-130	7		30
4-Methyl-2-pentanone	97		95		70-130	2		30
2-Hexanone	97		96		70-130	1		30
Bromochloromethane	96		96		70-130	0		30
Tetrahydrofuran	107		105		66-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01,07 Batch: WG1151231-3 WG1151231-4								
2,2-Dichloropropane	96		95		70-130	1		30
1,2-Dibromoethane	98		98		70-130	0		30
1,1,1,2-Tetrachloroethane	92		92		70-130	0		30
Bromobenzene	89		89		70-130	0		30
n-Butylbenzene	92		92		70-130	0		30
sec-Butylbenzene	90		90		70-130	0		30
tert-Butylbenzene	88		89		70-130	1		30
1,3,5-Trichlorobenzene	91		90		70-139	1		30
o-Chlorotoluene	94		94		70-130	0		30
p-Chlorotoluene	88		88		70-130	0		30
1,2-Dibromo-3-chloropropane	93		96		68-130	3		30
Hexachlorobutadiene	86		87		67-130	1		30
Isopropylbenzene	89		89		70-130	0		30
p-Isopropyltoluene	89		89		70-130	0		30
Naphthalene	93		93		70-130	0		30
n-Propylbenzene	90		90		70-130	0		30
1,2,3-Trichlorobenzene	91		90		70-130	1		30
1,2,4-Trichlorobenzene	91		91		70-130	0		30
1,3,5-Trimethylbenzene	88		88		70-130	0		30
1,2,4-Trimethylbenzene	88		87		70-130	1		30
Ethyl ether	91		91		67-130	0		30
Isopropyl Ether	87		86		66-130	1		30
Tert-Butyl Alcohol	113		112		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01,07 Batch: WG1151231-3 WG1151231-4								
Ethyl-Tert-Butyl-Ether	91		91		70-130	0		30
Tertiary-Amyl Methyl Ether	97		96		70-130	1		30
1,4-Dioxane	118		120		65-136	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		103		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	102		102		70-130

SEMIVOLATILES

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-01
Client ID: B1-S2
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 15:15
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/24/18 17:38
Analyst: RC
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 08/23/18 19:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
Fluoranthene	ND		ug/kg	110	21.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
1-Methylnaphthalene	ND		ug/kg	180	21.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	80		30-120
4-Terphenyl-d14	88		18-120

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-03
Client ID: B4-S3
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 11:20
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/24/18 18:04
Analyst: RC
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 08/23/18 19:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
Fluoranthene	ND		ug/kg	100	20.	1
Naphthalene	ND		ug/kg	180	21.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	18.	1
1-Methylnaphthalene	ND		ug/kg	180	20.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	83		30-120
4-Terphenyl-d14	96		18-120

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-05
Client ID: B9-S2
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 13:30
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/24/18 18:30
Analyst: RC
Percent Solids: 97%

Extraction Method: EPA 3546
Extraction Date: 08/23/18 19:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
Fluoranthene	ND		ug/kg	100	19.	1
Naphthalene	ND		ug/kg	170	21.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	41.	1
Benzo(b)fluoranthene	ND		ug/kg	100	28.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
1-Methylnaphthalene	ND		ug/kg	170	20.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	79		30-120
4-Terphenyl-d14	90		18-120

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-07
Client ID: B13-S5
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 09:40
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/24/18 18:56
Analyst: RC
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 08/23/18 19:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
Fluoranthene	ND		ug/kg	110	21.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
1-Methylnaphthalene	ND		ug/kg	180	21.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	77		30-120
4-Terphenyl-d14	96		18-120

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-13
Client ID: B21-S4
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 10:30
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/24/18 19:22
Analyst: RC
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 08/23/18 19:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
Fluoranthene	ND		ug/kg	100	20.	1
Naphthalene	ND		ug/kg	180	21.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	18.	1
1-Methylnaphthalene	ND		ug/kg	180	20.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	72		30-120
4-Terphenyl-d14	94		18-120

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/24/18 22:33
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/23/18 19:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03,05,07,13 Batch: WG1150016-1					
Acenaphthene	ND		ug/kg	130	17.
2-Chloronaphthalene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
1-Methylnaphthalene	ND		ug/kg	160	19.
2-Methylnaphthalene	ND		ug/kg	200	20.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/24/18 22:33
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/23/18 19:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03,05,07,13 Batch: WG1150016-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	72		30-120
4-Terphenyl-d14	83		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03,05,07,13 Batch: WG1150016-2 WG1150016-3								
Acenaphthene	86		82		31-137	5		50
2-Chloronaphthalene	97		89		40-140	9		50
Fluoranthene	92		87		40-140	6		50
Naphthalene	91		82		40-140	10		50
Benzo(a)anthracene	84		79		40-140	6		50
Benzo(a)pyrene	90		85		40-140	6		50
Benzo(b)fluoranthene	90		84		40-140	7		50
Benzo(k)fluoranthene	95		88		40-140	8		50
Chrysene	89		83		40-140	7		50
Acenaphthylene	97		88		40-140	10		50
Anthracene	90		86		40-140	5		50
Benzo(ghi)perylene	91		82		40-140	10		50
Fluorene	96		85		40-140	12		50
Phenanthrene	89		84		40-140	6		50
Dibenzo(a,h)anthracene	90		82		40-140	9		50
Indeno(1,2,3-cd)pyrene	92		80		40-140	14		50
Pyrene	93		87		35-142	7		50
1-Methylnaphthalene	98		86		26-130	13		50
2-Methylnaphthalene	92		84		40-140	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03,05,07,13 Batch: WG1150016-2 WG1150016-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	86		86		23-120
2-Fluorobiphenyl	90		82		30-120
4-Terphenyl-d14	87		84		18-120

PETROLEUM HYDROCARBONS

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-01
Client ID: B1-S2
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 15:15
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 08/24/18 09:56
Analyst: SC
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 08/23/18 18:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	26800	J	ug/kg	35900	4120	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	81		40-140

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-03
Client ID: B4-S3
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 11:20
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 08/24/18 10:28
Analyst: SC
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 08/23/18 18:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	33800	3890	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	85		40-140

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-05
Client ID: B9-S2
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 13:30
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 08/24/18 11:01
Analyst: SC
Percent Solids: 97%

Extraction Method: EPA 3546
Extraction Date: 08/23/18 18:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	32900	3780	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	87		40-140

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-07
Client ID: B13-S5
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 09:40
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 08/24/18 11:34
Analyst: SC
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 08/23/18 18:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	37000	4250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	84		40-140

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-13
Client ID: B21-S4
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 10:30
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 08/24/18 12:07
Analyst: SC
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 08/23/18 18:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	35000	4030	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	82		40-140

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 08/24/18 09:58
Analyst: SC

Extraction Method: EPA 3546
Extraction Date: 08/23/18 18:09

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01,03,05,07,13 Batch: WG1149986-1					
TPH	7050	J	ug/kg	31500	3620

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	79		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01,03,05,07,13 Batch: WG1149986-2								
TPH	94		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	85				40-140

PCBS

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-14
Client ID: CS-1
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 15:05
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8082A
Analytical Date: 08/27/18 05:37
Analyst: HT
Percent Solids: 93%

Extraction Method: EPA 3540C
Extraction Date: 08/21/18 09:30
Cleanup Method: EPA 3665A
Cleanup Date: 08/24/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/24/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	60.4	8.94	1	A
Aroclor 1221	ND		ug/kg	60.4	10.1	1	A
Aroclor 1232	ND		ug/kg	60.4	21.3	1	A
Aroclor 1242	ND		ug/kg	60.4	13.6	1	A
Aroclor 1248	ND		ug/kg	40.2	15.1	1	A
Aroclor 1254	ND		ug/kg	60.4	11.0	1	A
Aroclor 1260	ND		ug/kg	40.2	18.6	1	A
Aroclor 1262	ND		ug/kg	20.1	12.8	1	A
Aroclor 1268	ND		ug/kg	20.1	10.4	1	A
PCBs, Total	ND		ug/kg	20.1	8.94	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	78		30-150	A

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-15
Client ID: CS-9
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 13:25
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8082A
Analytical Date: 08/27/18 05:49
Analyst: HT
Percent Solids: 97%

Extraction Method: EPA 3540C
Extraction Date: 08/21/18 09:30
Cleanup Method: EPA 3665A
Cleanup Date: 08/24/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/24/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	52.0	7.70	1	A
Aroclor 1221	ND		ug/kg	52.0	8.68	1	A
Aroclor 1232	ND		ug/kg	52.0	18.4	1	A
Aroclor 1242	ND		ug/kg	52.0	11.7	1	A
Aroclor 1248	ND		ug/kg	34.7	13.0	1	A
Aroclor 1254	136		ug/kg	52.0	9.48	1	B
Aroclor 1260	ND		ug/kg	34.7	16.0	1	A
Aroclor 1262	ND		ug/kg	17.3	11.0	1	A
Aroclor 1268	ND		ug/kg	17.3	8.98	1	A
PCBs, Total	136		ug/kg	17.3	7.70	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	75		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	69		30-150	A

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-22
Client ID: CS-DUP3
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 15:05
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8082A
Analytical Date: 08/27/18 11:33
Analyst: HT
Percent Solids: 93%

Extraction Method: EPA 3540C
Extraction Date: 08/23/18 11:10
Cleanup Method: EPA 3665A
Cleanup Date: 08/26/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/26/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	62.0	9.18	1	A
Aroclor 1221	ND		ug/kg	62.0	10.4	1	A
Aroclor 1232	ND		ug/kg	62.0	21.9	1	A
Aroclor 1242	ND		ug/kg	62.0	13.9	1	A
Aroclor 1248	ND		ug/kg	41.3	15.5	1	A
Aroclor 1254	ND		ug/kg	62.0	11.3	1	A
Aroclor 1260	ND		ug/kg	41.3	19.1	1	A
Aroclor 1262	ND		ug/kg	20.7	13.1	1	A
Aroclor 1268	ND		ug/kg	20.7	10.7	1	A
PCBs, Total	ND		ug/kg	20.7	9.18	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	65		30-150	B
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	50		30-150	A

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/27/18 06:02
Analyst: HT

Extraction Method: EPA 3540C
Extraction Date: 08/21/18 09:30
Cleanup Method: EPA 3665A
Cleanup Date: 08/24/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/24/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 14-15 Batch: WG1148714-1						
Aroclor 1016	ND		ug/kg	57.1	8.46	A
Aroclor 1221	ND		ug/kg	57.1	9.54	A
Aroclor 1232	ND		ug/kg	57.1	20.2	A
Aroclor 1242	ND		ug/kg	57.1	12.8	A
Aroclor 1248	ND		ug/kg	38.1	14.3	A
Aroclor 1254	ND		ug/kg	57.1	10.4	A
Aroclor 1260	ND		ug/kg	38.1	17.6	A
Aroclor 1262	ND		ug/kg	19.0	12.1	A
Aroclor 1268	ND		ug/kg	19.0	9.87	A
PCBs, Total	ND		ug/kg	19.0	8.46	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	59		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	61		30-150	A

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/27/18 14:08
Analyst: HT

Extraction Method: EPA 3540C
Extraction Date: 08/23/18 11:10
Cleanup Method: EPA 3665A
Cleanup Date: 08/26/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/26/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 22 Batch: WG1149709-1						
Aroclor 1016	ND		ug/kg	56.1	8.30	A
Aroclor 1221	ND		ug/kg	56.1	9.36	A
Aroclor 1232	ND		ug/kg	56.1	19.8	A
Aroclor 1242	ND		ug/kg	56.1	12.6	A
Aroclor 1248	ND		ug/kg	37.4	14.0	A
Aroclor 1254	ND		ug/kg	56.1	10.2	A
Aroclor 1260	ND		ug/kg	37.4	17.3	A
Aroclor 1262	ND		ug/kg	18.7	11.9	A
Aroclor 1268	ND		ug/kg	18.7	9.68	A
PCBs, Total	ND		ug/kg	18.7	8.30	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	55		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 14-15 Batch: WG1148714-2 WG1148714-3									
Aroclor 1016	68		69		40-140	1		50	A
Aroclor 1260	57		58		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		80		30-150	B
Decachlorobiphenyl	71		67		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		88		30-150	A
Decachlorobiphenyl	67		67		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 22 Batch: WG1149709-2 WG1149709-3									
Aroclor 1016	72		78		40-140	8		50	A
Aroclor 1260	60		66		40-140	10		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		75		30-150	B
Decachlorobiphenyl	61		67		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		72		30-150	A
Decachlorobiphenyl	55		61		30-150	A

METALS

Project Name: WW CROSS PROPERTY
Lab Number: L1832241
Project Number: 141.05051.010
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-14
Client ID: CS-1
Sample Location: JAFFREY, NH
Date Collected: 08/15/18 15:05
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	0.564	J	mg/kg	2.03	0.154	1	08/27/18 13:15	08/27/18 23:47	EPA 3050B	1,6010D	AB
Arsenic, Total	4.14		mg/kg	0.406	0.084	1	08/27/18 13:15	08/27/18 23:47	EPA 3050B	1,6010D	AB
Beryllium, Total	0.174	J	mg/kg	0.203	0.013	1	08/27/18 13:15	08/27/18 23:47	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.406	0.040	1	08/27/18 13:15	08/27/18 23:47	EPA 3050B	1,6010D	AB
Chromium, Total	14.0		mg/kg	0.406	0.039	1	08/27/18 13:15	08/27/18 23:47	EPA 3050B	1,6010D	AB
Copper, Total	9.41		mg/kg	0.406	0.105	1	08/27/18 13:15	08/27/18 23:47	EPA 3050B	1,6010D	AB
Lead, Total	2.74		mg/kg	2.03	0.109	1	08/27/18 13:15	08/27/18 23:47	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.067	0.014	1	08/22/18 07:30	08/22/18 21:14	EPA 7471B	1,7471B	EA
Nickel, Total	7.42		mg/kg	1.01	0.098	1	08/27/18 13:15	08/27/18 23:47	EPA 3050B	1,6010D	AB
Selenium, Total	0.219	J	mg/kg	0.811	0.105	1	08/27/18 13:15	08/27/18 23:47	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.406	0.115	1	08/27/18 13:15	08/27/18 23:47	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	0.811	0.128	1	08/27/18 13:15	08/27/18 23:47	EPA 3050B	1,6010D	AB
Zinc, Total	19.4		mg/kg	2.03	0.119	1	08/27/18 13:15	08/27/18 23:47	EPA 3050B	1,6010D	AB

Project Name: WW CROSS PROPERTY
Lab Number: L1832241
Project Number: 141.05051.010
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-15
Client ID: CS-9
Sample Location: JAFFREY, NH
Date Collected: 08/15/18 13:25
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	4.01		mg/kg	2.03	0.154	1	08/27/18 13:15	08/28/18 01:16	EPA 3050B	1,6010D	AB
Arsenic, Total	8.93		mg/kg	0.406	0.085	1	08/27/18 13:15	08/28/18 01:16	EPA 3050B	1,6010D	AB
Beryllium, Total	0.191	J	mg/kg	0.203	0.013	1	08/27/18 13:15	08/28/18 01:16	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	2.03	0.199	5	08/27/18 13:15	08/28/18 02:21	EPA 3050B	1,6010D	AB
Chromium, Total	56.8		mg/kg	0.406	0.039	1	08/27/18 13:15	08/28/18 01:16	EPA 3050B	1,6010D	AB
Copper, Total	107		mg/kg	0.406	0.105	1	08/27/18 13:15	08/28/18 01:16	EPA 3050B	1,6010D	AB
Lead, Total	13.3		mg/kg	2.03	0.109	1	08/27/18 13:15	08/28/18 01:16	EPA 3050B	1,6010D	AB
Mercury, Total	0.016	J	mg/kg	0.066	0.014	1	08/22/18 07:30	08/22/18 21:16	EPA 7471B	1,7471B	EA
Nickel, Total	31.4		mg/kg	1.02	0.098	1	08/27/18 13:15	08/28/18 01:16	EPA 3050B	1,6010D	AB
Selenium, Total	0.211	J	mg/kg	0.812	0.105	1	08/27/18 13:15	08/28/18 01:16	EPA 3050B	1,6010D	AB
Silver, Total	0.341	J	mg/kg	0.406	0.115	1	08/27/18 13:15	08/28/18 01:16	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	0.812	0.128	1	08/27/18 13:15	08/28/18 01:16	EPA 3050B	1,6010D	AB
Zinc, Total	87.0		mg/kg	2.03	0.119	1	08/27/18 13:15	08/28/18 01:16	EPA 3050B	1,6010D	AB

Project Name: WW CROSS PROPERTY
Lab Number: L1832241
Project Number: 141.05051.010
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-16
Client ID: CS-16
Sample Location: JAFFREY, NH
Date Collected: 08/15/18 14:30
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	1.88	J	mg/kg	2.02	0.153	1	08/27/18 13:15	08/28/18 01:20	EPA 3050B	1,6010D	AB
Arsenic, Total	7.36		mg/kg	0.404	0.084	1	08/27/18 13:15	08/28/18 01:20	EPA 3050B	1,6010D	AB
Beryllium, Total	0.178	J	mg/kg	0.202	0.013	1	08/27/18 13:15	08/28/18 01:20	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	2.02	0.198	5	08/27/18 13:15	08/28/18 02:42	EPA 3050B	1,6010D	AB
Chromium, Total	35.2		mg/kg	0.404	0.039	1	08/27/18 13:15	08/28/18 01:20	EPA 3050B	1,6010D	AB
Copper, Total	32.3		mg/kg	0.404	0.104	1	08/27/18 13:15	08/28/18 01:20	EPA 3050B	1,6010D	AB
Lead, Total	16.4		mg/kg	2.02	0.108	1	08/27/18 13:15	08/28/18 01:20	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.065	0.014	1	08/22/18 07:30	08/22/18 21:17	EPA 7471B	1,7471B	EA
Nickel, Total	17.7		mg/kg	1.01	0.098	1	08/27/18 13:15	08/28/18 01:20	EPA 3050B	1,6010D	AB
Selenium, Total	0.210	J	mg/kg	0.807	0.104	1	08/27/18 13:15	08/28/18 01:20	EPA 3050B	1,6010D	AB
Silver, Total	1.14		mg/kg	0.404	0.114	1	08/27/18 13:15	08/28/18 01:20	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	0.807	0.127	1	08/27/18 13:15	08/28/18 01:20	EPA 3050B	1,6010D	AB
Zinc, Total	40.5		mg/kg	2.02	0.118	1	08/27/18 13:15	08/28/18 01:20	EPA 3050B	1,6010D	AB

Project Name: WW CROSS PROPERTY
Lab Number: L1832241
Project Number: 141.05051.010
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-18
Client ID: CS-18
Sample Location: JAFFREY, NH
Date Collected: 08/15/18 15:50
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	6.73		mg/kg	1.99	0.152	1	08/27/18 13:15	08/28/18 01:25	EPA 3050B	1,6010D	AB
Arsenic, Total	11.7		mg/kg	0.399	0.083	1	08/27/18 13:15	08/28/18 01:25	EPA 3050B	1,6010D	AB
Beryllium, Total	0.223		mg/kg	0.199	0.013	1	08/27/18 13:15	08/28/18 01:25	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	1.99	0.195	5	08/27/18 13:15	08/28/18 02:46	EPA 3050B	1,6010D	AB
Chromium, Total	86.8		mg/kg	0.399	0.038	1	08/27/18 13:15	08/28/18 01:25	EPA 3050B	1,6010D	AB
Copper, Total	95.6		mg/kg	0.399	0.103	1	08/27/18 13:15	08/28/18 01:25	EPA 3050B	1,6010D	AB
Lead, Total	19.4		mg/kg	1.99	0.107	1	08/27/18 13:15	08/28/18 01:25	EPA 3050B	1,6010D	AB
Mercury, Total	0.095		mg/kg	0.067	0.014	1	08/22/18 07:30	08/22/18 21:19	EPA 7471B	1,7471B	EA
Nickel, Total	45.1		mg/kg	0.997	0.097	1	08/27/18 13:15	08/28/18 01:25	EPA 3050B	1,6010D	AB
Selenium, Total	0.132	J	mg/kg	0.798	0.103	1	08/27/18 13:15	08/28/18 01:25	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.399	0.113	1	08/27/18 13:15	08/28/18 01:25	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	0.798	0.126	1	08/27/18 13:15	08/28/18 01:25	EPA 3050B	1,6010D	AB
Zinc, Total	26.3		mg/kg	1.99	0.117	1	08/27/18 13:15	08/28/18 01:25	EPA 3050B	1,6010D	AB

Project Name: WW CROSS PROPERTY
Lab Number: L1832241
Project Number: 141.05051.010
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-19
Client ID: CS-19
Sample Location: JAFFREY, NH
Date Collected: 08/15/18 16:30
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	0.369	J	mg/kg	2.03	0.154	1	08/27/18 13:15	08/28/18 01:50	EPA 3050B	1,6010D	AB
Arsenic, Total	1.93		mg/kg	0.405	0.084	1	08/27/18 13:15	08/28/18 01:50	EPA 3050B	1,6010D	AB
Beryllium, Total	0.162	J	mg/kg	0.203	0.013	1	08/27/18 13:15	08/28/18 01:50	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.405	0.040	1	08/27/18 13:15	08/28/18 01:50	EPA 3050B	1,6010D	AB
Chromium, Total	7.17		mg/kg	0.405	0.039	1	08/27/18 13:15	08/28/18 01:50	EPA 3050B	1,6010D	AB
Copper, Total	9.79		mg/kg	0.405	0.104	1	08/27/18 13:15	08/28/18 01:50	EPA 3050B	1,6010D	AB
Lead, Total	4.19		mg/kg	2.03	0.109	1	08/27/18 13:15	08/28/18 01:50	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.067	0.014	1	08/22/18 07:30	08/22/18 21:25	EPA 7471B	1,7471B	EA
Nickel, Total	4.49		mg/kg	1.01	0.098	1	08/27/18 13:15	08/28/18 01:50	EPA 3050B	1,6010D	AB
Selenium, Total	0.510	J	mg/kg	0.810	0.104	1	08/27/18 13:15	08/28/18 01:50	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.405	0.115	1	08/27/18 13:15	08/28/18 01:50	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	0.810	0.128	1	08/27/18 13:15	08/28/18 01:50	EPA 3050B	1,6010D	AB
Zinc, Total	21.8		mg/kg	2.03	0.119	1	08/27/18 13:15	08/28/18 01:50	EPA 3050B	1,6010D	AB

Project Name: WW CROSS PROPERTY
Lab Number: L1832241
Project Number: 141.05051.010
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-22
Client ID: CS-DUP3
Sample Location: JAFFREY, NH
Date Collected: 08/15/18 15:05
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	0.483	J	mg/kg	2.08	0.158	1	08/27/18 13:15	08/28/18 01:55	EPA 3050B	1,6010D	AB
Arsenic, Total	3.92		mg/kg	0.416	0.087	1	08/27/18 13:15	08/28/18 01:55	EPA 3050B	1,6010D	AB
Beryllium, Total	0.166	J	mg/kg	0.208	0.014	1	08/27/18 13:15	08/28/18 01:55	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.416	0.041	1	08/27/18 13:15	08/28/18 01:55	EPA 3050B	1,6010D	AB
Chromium, Total	13.6		mg/kg	0.416	0.040	1	08/27/18 13:15	08/28/18 01:55	EPA 3050B	1,6010D	AB
Copper, Total	9.50		mg/kg	0.416	0.107	1	08/27/18 13:15	08/28/18 01:55	EPA 3050B	1,6010D	AB
Lead, Total	2.90		mg/kg	2.08	0.112	1	08/27/18 13:15	08/28/18 01:55	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.069	0.015	1	08/22/18 07:30	08/22/18 21:27	EPA 7471B	1,7471B	EA
Nickel, Total	7.32		mg/kg	1.04	0.101	1	08/27/18 13:15	08/28/18 01:55	EPA 3050B	1,6010D	AB
Selenium, Total	0.312	J	mg/kg	0.832	0.107	1	08/27/18 13:15	08/28/18 01:55	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.416	0.118	1	08/27/18 13:15	08/28/18 01:55	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	0.832	0.131	1	08/27/18 13:15	08/28/18 01:55	EPA 3050B	1,6010D	AB
Zinc, Total	19.9		mg/kg	2.08	0.122	1	08/27/18 13:15	08/28/18 01:55	EPA 3050B	1,6010D	AB

Project Name: WW CROSS PROPERTY **Lab Number:** L1832241

Project Number: 141.05051.010 **Report Date:** 08/28/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 14-16,18-19,22 Batch: WG1149104-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	08/22/18 07:30	08/22/18 21:02	1,7471B	EA

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 14-16,18-19,22 Batch: WG1150965-1										
Antimony, Total	ND		mg/kg	2.00	0.152	1	08/27/18 13:15	08/27/18 23:56	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	08/27/18 13:15	08/27/18 23:56	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/27/18 13:15	08/27/18 23:56	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/27/18 13:15	08/27/18 23:56	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/27/18 13:15	08/27/18 23:56	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	08/27/18 13:15	08/27/18 23:56	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	08/27/18 13:15	08/27/18 23:56	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/27/18 13:15	08/27/18 23:56	1,6010D	AB
Selenium, Total	0.108	J	mg/kg	0.800	0.103	1	08/27/18 13:15	08/27/18 23:56	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	08/27/18 13:15	08/27/18 23:56	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	08/27/18 13:15	08/27/18 23:56	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	08/27/18 13:15	08/27/18 23:56	1,6010D	AB

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 14-16,18-19,22 Batch: WG1149104-2 SRM Lot Number: D102-540								
Mercury, Total	102		-		65-134	-		
Total Metals - Mansfield Lab Associated sample(s): 14-16,18-19,22 Batch: WG1150965-2 SRM Lot Number: D102-540								
Antimony, Total	152		-		1-199	-		
Arsenic, Total	90		-		83-117	-		
Beryllium, Total	93		-		83-116	-		
Cadmium, Total	93		-		83-118	-		
Chromium, Total	89		-		83-117	-		
Copper, Total	88		-		84-116	-		
Lead, Total	85		-		82-118	-		
Nickel, Total	87		-		83-117	-		
Selenium, Total	93		-		79-121	-		
Silver, Total	93		-		80-120	-		
Thallium, Total	87		-		81-119	-		
Zinc, Total	87		-		81-118	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 14-16,18-19,22 QC Batch ID: WG1150965-3 QC Sample: L1832241-14 Client ID: CS-1												
Antimony, Total	0.564J	41.7	30.7	**74**	Q	-	-		75-125	-		20
Arsenic, Total	4.14	10	12.9	88		-	-		75-125	-		20
Beryllium, Total	0.174J	4.17	3.31	79		-	-		75-125	-		20
Cadmium, Total	ND	4.25	2.72	**64**	Q	-	-		75-125	-		20
Chromium, Total	14.0	16.7	26.3	**74**	Q	-	-		75-125	-		20
Copper, Total	9.41	20.8	26.8	83		-	-		75-125	-		20
Lead, Total	2.74	42.5	33.1	**71**	Q	-	-		75-125	-		20
Nickel, Total	7.42	41.7	35.6	**68**	Q	-	-		75-125	-		20
Selenium, Total	0.219J	10	9.17	92		-	-		75-125	-		20
Silver, Total	ND	25	24.5	98		-	-		75-125	-		20
Thallium, Total	ND	10	6.84	**68**	Q	-	-		75-125	-		20
Zinc, Total	19.4	41.7	51.6	77		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 14-16,18-19,22 QC Batch ID: WG1150965-4 QC Sample: L1832241-14 Client ID: CS-1						
Antimony, Total	0.564J	0.410J	mg/kg	NC		20
Arsenic, Total	4.14	3.93	mg/kg	5		20
Beryllium, Total	0.174J	0.165J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	14.0	13.2	mg/kg	6		20
Copper, Total	9.41	10.7	mg/kg	13		20
Lead, Total	2.74	2.67	mg/kg	3		20
Nickel, Total	7.42	6.95	mg/kg	7		20
Selenium, Total	0.219J	0.211J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Thallium, Total	ND	ND	mg/kg	NC		20
Zinc, Total	19.4	19.4	mg/kg	0		20

INORGANICS
&
MISCELLANEOUS

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-01
Client ID: B1-S2
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 15:15
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	08/20/18 21:36	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.0	0.21	1	08/21/18 18:18	08/22/18 11:16	1,9010C/9012B	LH

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-03
Client ID: B4-S3
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 11:20
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.6		%	0.100	NA	1	-	08/21/18 15:26	121,2540G	RI

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-05
Client ID: B9-S2
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 13:30
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.1		%	0.100	NA	1	-	08/20/18 21:36	121,2540G	FN
Cyanide, Total	ND		mg/kg	0.95	0.20	1	08/21/18 18:18	08/22/18 11:19	1,9010C/9012B	LH

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-07
Client ID: B13-S5
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 09:40
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.3		%	0.100	NA	1	-	08/20/18 21:36	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.23	1	08/21/18 18:18	08/22/18 11:20	1,9010C/9012B	LH

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-08
Client ID: B16-S4
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 14:45
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.1		%	0.100	NA	1	-	08/21/18 15:26	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	08/21/18 18:18	08/22/18 11:21	1,9010C/9012B	LH

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-09
Client ID: B17-S3
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 12:30
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	08/20/18 21:36	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.24	1	08/21/18 18:18	08/22/18 11:22	1,9010C/9012B	LH

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-10
Client ID: B18-S3
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 16:05
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	08/20/18 21:36	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.2	0.25	1	08/21/18 18:18	08/22/18 11:23	1,9010C/9012B	LH

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-11
Client ID: B19-S2
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 16:45
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	08/20/18 21:36	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.0	0.22	1	08/21/18 18:18	08/22/18 11:24	1,9010C/9012B	LH

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-13
Client ID: B21-S4
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 10:30
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.1		%	0.100	NA	1	-	08/20/18 21:36	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-14
Client ID: CS-1
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 15:05
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.4		%	0.100	NA	1	-	08/22/18 11:42	121,2540G	RI

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-15
Client ID: CS-9
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 13:25
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.3		%	0.100	NA	1	-	08/22/18 11:42	121,2540G	RI

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-16
Client ID: CS-16
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 14:30
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.8		%	0.100	NA	1	-	08/21/18 15:26	121,2540G	RI

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-18
Client ID: CS-18
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 15:50
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	96.2		%	0.100	0.100	1	-	08/22/18 16:05	121,2540G	GD

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-19
Client ID: CS-19
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 16:30
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	95.5		%	0.100	0.100	1	-	08/22/18 16:05	121,2540G	GD

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-22
Client ID: CS-DUP3
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 15:05
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.2		%	0.100	NA	1	-	08/22/18 11:42	121,2540G	RI

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

SAMPLE RESULTS

Lab ID: L1832241-23
Client ID: TCN-DUP
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 16:05
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	08/21/18 15:26	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	08/21/18 18:18	08/22/18 11:40	1,9010C/9012B	LH

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832241
Report Date: 08/28/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01,05,07-11,23 Batch: WG1148972-1										
Cyanide, Total	ND		mg/kg	0.92	0.20	1	08/21/18 18:18	08/22/18 11:05	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,05,07-11,23 Batch: WG1148972-2 WG1148972-3								
Cyanide, Total	84		80		80-120	12		35

Matrix Spike Analysis
Batch Quality Control

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,05,07-11,23 QC Batch ID: WG1148972-4 WG1148972-5 QC Sample: L1832241-01 Client ID: B1-S2												
Cyanide, Total	ND	11	10	93		9.9	96		75-125	1		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832241

Report Date: 08/28/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,05,07,09-11,13 QC Batch ID: WG1148597-1 QC Sample: L1832241-01 Client ID: B1-S2						
Solids, Total	91.0	91.2	%	0		20
General Chemistry - Mansfield Lab Associated sample(s): 18-19 QC Batch ID: WG1149237-1 QC Sample: L1832241-18 Client ID: CS-18						
Solids, Total	96.2	96.2	%	0		10
General Chemistry - Westborough Lab Associated sample(s): 14-15,22 QC Batch ID: WG1149307-1 QC Sample: L1832241-14 Client ID: CS-1						
Solids, Total	93.4	93.8	%	0		20

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1832241-01A	Vial MeOH preserved	A	NA		5.4	Y	Absent		8260HLW-NH(14)
L1832241-01B	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)
L1832241-01C	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)
L1832241-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		HOLD-METAL(180)
L1832241-01E	Glass 120ml/4oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),8270TCL-PAH(14),TS(7),TPH-DRO-D(14)
L1832241-01F	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),8270TCL-PAH(14),TS(7),TPH-DRO-D(14)
L1832241-02A	Vial MeOH preserved	A	NA		5.4	Y	Absent		HOLD-8260HLW(14)
L1832241-02B	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	HOLD-8260HLW(14)
L1832241-02C	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	HOLD-8260HLW(14)
L1832241-02D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		HOLD-METAL(180)
L1832241-02E	Glass 120ml/4oz unpreserved	A	NA		5.4	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14),HOLD-8082()
L1832241-02F	Glass 120ml/4oz unpreserved	A	NA		5.4	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14),HOLD-8082()
L1832241-03A	Vial MeOH preserved	A	NA		5.4	Y	Absent		8260HLW-NH(14)
L1832241-03B	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)
L1832241-03C	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)
L1832241-03D	Plastic 2oz unpreserved for TS	A	NA		5.4	Y	Absent		HOLD-METAL(180)
L1832241-03E	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		8270TCL-PAH(14),TS(7),TPH-DRO-D(14)
L1832241-04A	Vial MeOH preserved	A	NA		5.4	Y	Absent		HOLD-8260HLW(14)
L1832241-04B	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	HOLD-8260HLW(14)
L1832241-04C	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	HOLD-8260HLW(14)
L1832241-04D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		HOLD-METAL(180)

*Values in parentheses indicate holding time in days

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1832241-04E	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14),HOLD-8082()
L1832241-05A	Vial MeOH preserved	A	NA		5.4	Y	Absent		8260HLW-NH(14)
L1832241-05B	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)
L1832241-05C	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)
L1832241-05D	Plastic 2oz unpreserved for TS	A	NA		5.4	Y	Absent		TS(7)
L1832241-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		HOLD-METAL(180)
L1832241-05F	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),8270TCL-PAH(14),TPH-DRO-D(14)
L1832241-06A	Vial MeOH preserved	A	NA		5.4	Y	Absent		HOLD-8260HLW(14)
L1832241-06B	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	HOLD-8260HLW(14)
L1832241-06C	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	HOLD-8260HLW(14)
L1832241-06D	Plastic 2oz unpreserved for TS	A	NA		5.4	Y	Absent		HOLD-WETCHEM()
L1832241-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		HOLD-METAL(180)
L1832241-06F	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		HOLD-8270(14),HOLD-8082()
L1832241-06G	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		HOLD-8270(14),HOLD-8082()
L1832241-07A	Vial MeOH preserved	A	NA		5.4	Y	Absent		8260HLW-NH(14)
L1832241-07B	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)
L1832241-07C	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)
L1832241-07D	Plastic 2oz unpreserved for TS	A	NA		5.4	Y	Absent		TS(7)
L1832241-07E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		HOLD-METAL(180)
L1832241-07F	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),8270TCL-PAH(14),TPH-DRO-D(14)
L1832241-08A	Vial MeOH preserved	A	NA		5.4	Y	Absent		8260HLW-NH(14)
L1832241-08B	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)
L1832241-08C	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)
L1832241-08D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		HOLD-METAL(180)
L1832241-08E	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),TS(7),HOLD-8270(14),HOLD-8082()
L1832241-09A	Vial MeOH preserved	A	NA		5.4	Y	Absent		8260HLW-NH(14)
L1832241-09B	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)

*Values in parentheses indicate holding time in days

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1832241-09C	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)
L1832241-09D	Plastic 2oz unpreserved for TS	A	NA		5.4	Y	Absent		TS(7)
L1832241-09E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		HOLD-METAL(180)
L1832241-09F	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),HOLD-8270(14),HOLD-8082()
L1832241-09G	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),HOLD-8270(14),HOLD-8082()
L1832241-10A	Vial MeOH preserved	A	NA		5.4	Y	Absent		8260HLW-NH(14)
L1832241-10B	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)
L1832241-10C	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)
L1832241-10D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		HOLD-METAL(180)
L1832241-10E	Glass 120ml/4oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),TS(7),HOLD-8270(14),HOLD-8082()
L1832241-10F	Glass 120ml/4oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),TS(7),HOLD-8270(14),HOLD-8082()
L1832241-11A	Vial MeOH preserved	A	NA		5.4	Y	Absent		8260HLW-NH(14)
L1832241-11B	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)
L1832241-11C	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)
L1832241-11D	Plastic 2oz unpreserved for TS	A	NA		5.4	Y	Absent		TS(7)
L1832241-11E	Glass 120ml/4oz unpreserved	A	NA		5.4	Y	Absent		HOLD-METAL(180)
L1832241-11F	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),HOLD-8270(14),HOLD-8082()
L1832241-12A	Vial MeOH preserved	A	NA		5.4	Y	Absent		HOLD-8260HLW(14)
L1832241-12B	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	HOLD-8260HLW(14)
L1832241-12C	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 10:00	HOLD-8260HLW(14)
L1832241-12D	Plastic 2oz unpreserved for TS	A	NA		5.4	Y	Absent		HOLD-METAL(180)
L1832241-12E	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14),HOLD-8082()
L1832241-12F	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		-
L1832241-13A	Vial MeOH preserved	A	NA		5.4	Y	Absent		8260HLW-NH(14)
L1832241-13B	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)
L1832241-13C	Vial water preserved	A	NA		5.4	Y	Absent	17-AUG-18 06:45	8260HLW-NH(14)
L1832241-13D	Plastic 2oz unpreserved for TS	A	NA		5.4	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832241
Report Date: 08/28/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1832241-13E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		HOLD-METAL(180)
L1832241-13F	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		8270TCL-PAH(14),TPH-DRO-D(14),HOLD-8082()
L1832241-14A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1832241-14B	Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		PCB-8082LL-CNCRT(14),TS(7)
L1832241-15A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1832241-15B	Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		PCB-8082LL-CNCRT(14),TS(7)
L1832241-16A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1832241-16B	Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		TS(7)
L1832241-18A	Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),A2-TS(7),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1832241-19A	Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),A2-TS(7),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1832241-20A	Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		HOLD-WETCHEM(),HOLD-METAL(180),HOLD-8082()
L1832241-21A	Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		HOLD-WETCHEM(),HOLD-METAL(180),HOLD-8082()
L1832241-22A	Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		PCB-8082LL-CNCRT(14),TS(7)
L1832241-22X	Glass 60ml unpreserved split	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1832241-23A	Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),TS(7)
L1832241-24A	Vial water preserved	A	NA		5.4	Y	Absent	**17-AUG-18 06:45**	8260HLW-NH(14)
L1832241-24B	Vial water preserved	A	NA		5.4	Y	Absent	**17-AUG-18 06:45**	8260HLW-NH(14)

*Values in parentheses indicate holding time in days

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1832241
Project Number:	141.05051.010	**Report Date:**	08/28/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1832241
Project Number:	141.05051.010	**Report Date:**	08/28/18

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1832241
Project Number:	141.05051.010	**Report Date:**	08/28/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 3

ALPHA ANALYTICAL
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab:

ALPHA Job #:

Project Information

Project Name: WWC Cass Property
Project Location: Jaffrey, NH
Project #: 141.05051.010
Project Manager: Steven Ricknrich
ALPHA Quote #:

Client Information

Client: Ransom Consulting
Address: 112 Corporate Drive, Portsmouth, NH 03801
Phone: 603-436-1490
Email: sricknrich@ransomenv.com
bonnie.best@ransomenv.com

Report Information - Data Deliverables

☑ ADEx ☐ EMAIL

Billing Information

☐ Same as Client info PO #: 11151

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods
☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program NHDES [illegible] Criteria [illegible]

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Additional Project Information:

Matrix X1 = Concrete
HOLD All samples pending email from Ransom
* = HOLD Sample

Analysis

VOC: ☒ 8260 ☐ 624 ☐ 524.2
SVOC: ☐ ABN ☒ PAH
METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15
METALS: ☐ RCRA8 ☐ RCRA5 ☐ PP13
EPH: ☐ Ranges & Targets ☐ Ranges Only
VPH: ☐ Ranges & Targets ☐ Ranges Only
☒ PCB ☐ PEST
TPH: ☐ Quant Only ☐ Fingerprint
TPH-DRO 8015
Priority Pollutant Metals
Hexavalent Chromium
Cyanide 9012/9014

SAMPLE INFO
Filtration: ☐ Field ☐ Lab to do
Preservation: ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC	SVOC	METALS	METALS	EPH	VPH	PCB	TPH	TPH-DRO 8015	Priority Pollutant Metals	Hexavalent Chromium	Cyanide	Sample Comments	Total # Bottles
	B1-S2	2-15-13	15:15	S	BA	✓	✓							✓	*	*	✓		
	B1-S4	↓	15:30	↓	↓	*	*							*	*	*	*		
	B4-S3		11:20			✓	✓							✓					
	B8-S1		8:50			*	*							*	*	*	*		
	B9-S2		13:30			✓	✓							✓	*	*	✓		
	B11-S1		14:10			*	*							*	*	*	*		
	B13-S5		9:40			✓	✓							✓	*	*	✓		
	B16-S4		14:45			✓									*	*	✓		
	B17-S3		12:30			✓									*	*	✓		
	B18-S3	↓	16:05	↓	↓	✓									*	*	✓		
					Container Type	V	A					A		A	A	A	A		
					Preservative	F/A	A					A		A	A	A	A		

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible signature]	2/16/13 14:56	[illegible signature]	[illegible]

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

Serial_No:08281815:49

CHAIN OF CUSTODY

PAGE 2 OF 3

ALPHA ANALYTICAL

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220

320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab:

ALPHA Job #:

Project Information

Project Name: NW Zoss Property

Project Location: Jaffrey NH

Project #: 141.05051.010

Project Manager: Steven Ricketts

ALPHA Quote #:

Report Information - Data Deliverables

☐ ADEx ☒ EMAIL

Billing Information

☐ Same as Client info PO #: 11151

Client Information

Client: Ransom Consulting Inc.

Address: 112 Corporate Drive Portsmouth, NH 03801

Phone: 603-436-1490

Email: SRicketts@ransomenv.com, bonnie.best@ransomenv.com

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods

☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)

☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)

☐ Yes ☐ No NPDES RGP

☒ Other State /Fed Program NHDES/USEPA Brownfields Criteria Per SSQAPP

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre approved)

Date Due:

Additional Project Information:

Matrix: X1 = Concrete

* = HOLD Sample

HOLD All Samples Pending email from Ransom

ANALYSIS: VOC: ☒ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☒ PAH 8270; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☐ PCB ☐ PEST [illegible] 8082; TPH: ☐ Quant Only ☐ Fingerprint; TPH-DRO 8015; Priority Pollutant Metals; Hexavalent Chromium; Cyanide 9010/9012

SAMPLE INFO — Filtration: ☐ Field ☐ Lab to do; Preservation: ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Analysis marks	Sample Comments	Total # Bottles
	B19-S2	8/15/18	16:15	S	EAP	✓ (VOC); * * (TPH-DRO, PP Metals); ✓ (Hex Cr)		
	B20-S3	↓	11:55	↓	↓	* * (VOC, SVOC); * (PCB)		
	B21-S4		10:30	↓	↓	✓ ✓ (VOC, SVOC); ✓ (PCB)		
	ZS1		15:05	X1	BA	✓ (EPH/VPH); ✓ (PP Metals)		
	ZS-9		13:35			✓; ✓		
	ZS-16		14:30			✓		
	ZS-17		12:30			✓		
	ZS-18		15:50			✓		
	ZS-19		16:30			✓		
	ZS-DUP1	↓	13:35	↓	↓	*; *		

Container Type	V	A	A	A	A	A	A	
Preservative	A	A	A	A	A	A	A	

Container Type: P= Plastic; A= Amber glass; V= Vial; G= Glass; B= Bacteria cup; C= Cube; O= Other; E= Encore; D= BOD Bottle

Preservative: A= None; B= HCl; C= HNO_3; D= H_2SO_4; E= NaOH; F= MeOH; G= $NaHSO_4$; H = $Na_2S_2O_3$; I= Ascorbic Acid; J = NH_4Cl; K= Zn Acetate; O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible] / [illegible]	8/16/18 15:[illegible]	[illegible] AAL	8/16/18 [illegible]

FORM NO. 01-01 (rev. 12-Mar-2012)

Serial_No:08281815:49

CHAIN OF CUSTODY

PAGE 3 OF 3

ALPHA ANALYTICAL

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab:

ALPHA Job #:

Client Information

Client: Ransom Consulting
Address: 112 Corporate Drive, Portsmouth NH 03801
Phone: 603-436-1490
Email: srizkevich@ransomenv.com; bonnie.best@ransomenv.com

Project Information

Project Name: WW Cross Property
Project Location: Jaffrey NH
Project #: 141.05051.010
Project Manager: Steven Rizkevich
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☐ Same as Client info PO #: 11151

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES [illegible] Criteria SS QAPP

Additional Project Information:

Matrix XI = Concrete

* = HOLD Sample

HOLD All Samples Pending email from Ransom

Analysis

VOC: ☒ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☒ PAH (8270); METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☒ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint; TPH-DRO 8015; Friable/Total Metals; Hexavalent Chromium; Cyanide 9010/9012B

SAMPLE INFO — Filtration: ☐ Field ☐ Lab to do; Preservation: ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC 8260	PCB	TPH-DRO 8015	Hexavalent Chromium	Sample Comments	Total # Bottles
	ZS-DUP2	8/15/18	14:30	XI	BAB		* ✓	* ✓			
	ZS-DUP3	↓	15:05	↓	↓						
	TZN-DUP	↓	16:05	S	↓				✓		
	Trip Blank					✓					

Container Type	V A	A	A	A	A	A
Preservative	F A A	A	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	8/16/18 14:56	[illegible] AAL	8/16/18 [illegible]

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

ALPHA ANALYTICAL

CHAIN OF COUSTODY

PAGE 1 OF 3

Date Rec'd in Lab: 8/16/18

ALPHA Job #: L1832241

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Project Information

Project Name: WW Cross Property

Project Location: Jaffrey, NH

Project #: 141.05051.010

Project Manager: Steven Rickerich

ALPHA Quote #:

Client Information

Client: Ransom Consulting, Inc.

Address: 112 Corporate Drive Portsmouth NH 03801

Phone: 603-436-1490

Email: s.rickerich@ransomenv.com bonnie.best@ransomenv.com

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #: 11151

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES+USEPA Brownfields Criteria Per SSQAPP

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Additional Project Information:

Matrix X1 = Concrete
HOLD All samples pending email from Ransom

ANALYSIS

VOC: ☒ 8260 ☐ 624 ☐ 524.2
SVOC: ☐ ABN ☒ PAH 8270
METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15
METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13
EPH: ☐ Ranges & Targets ☐ Ranges Only
VPH: ☐ Ranges & Targets ☐ Ranges Only
☒ PCB ☐ PEST Soxhlet 8082 Extraction
TPH: ☐ Quant Only ☐ Fingerprint
TPH-DRO 8015C
Priority Pollutant Metals
Hexavalent Chromium
Cyanide 9010/9012B

SAMPLE INFO
Filtration ☐ Field ☐ Lab to do
Preservation ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Sample Comments	TOTAL # BOTTLES
32241-01	B1-S2	8-15-18	15:15	S	BAS		
-02	B1-S4	↓	15:30	↓	↓		
-03	B4-S3	↓	11:20	↓	↓		
-04	B8-S1	↓	8:50	↓	↓		
-05	B9-S2	↓	13:30	↓	↓		
-06	B11-S1	↓	14:10	↓	↓		
-07	B13-S5	↓	9:40	↓	↓		
-08	B16-S4	↓	14:45	↓	↓		
-09	B17-S3	↓	12:30	↓	↓		
-10	B18-S3	↓	16:25	↓	↓		

Container Type: V A A A A A A
Preservative: F/A A A A A A A

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8/16/18 14:56	[signature] AAL	8-16-18 14:56
[signature] AAL	8-16-18 17:00	[signature]	8/16/18 17:00

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

CHAIN OF CUSTODY

PAGE 2 OF 3

Date Rec'd in Lab: 8/16/18

ALPHA Job #: L1832241

ALPHA ANALYTICAL

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Project Information

Project Name: WW Cross Property
Project Location: Jaffrey NH
Project #: 1411.05051.010
Project Manager: Steven Rickerich
ALPHA Quote #:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☐ Same as Client info PO #: 11151

Client Information

Client: Ransom Consulting Inc.
Address: 112 Corporate Drive Portsmouth NH 03801
Phone: 603-436-1490
Email: srickerich@ransomenv.com bonnie.best@ransomenv.com

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES+USEPA Brownfields Criteria Per SSQAPP

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due:

Additional Project Information:
Matrix X1 = Concrete
HOLD All Samples Pending email from Ransom

ANALYSIS: VOC: ☒ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☒ PAH 8270; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☒ PCB ☐ PEST Soxhlet 8082 Extraction; TPH: ☐ Quant Only ☐ Fingerprint; TPH-DRO 8015; Priority Pollutant Metals; Hexavalent Chromium; Cyanide 9010C/9012B

SAMPLE INFO: Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Sample Comments
32241-11	B19-S2	8-15-18	16:45	S	BAB	
-12	B20-S3	↓	11:55	↓	↓	
-13	B21-S4	↓	10:30	↓	↓	
-14	CS-1	↓	15:05	X1	BAB	
-15	CS-9	↓	13:25	↓	↓	
-16	CS-16	↓	14:30	↓	↓	
-17	CS-17	↓	12:20	↓	↓	
-18	CS-18	↓	15:50	↓	↓	
-19	CS-19	↓	16:30	↓	↓	
-20	CS-DUP1	↓	13:25	↓	↓	

	VOC	SVOC	PCB	TPH-DRO	Metals	Hex Cr	Cyanide
Container Type	V	A	A	A	A	A	A
Preservative	F/A	A	A	A	A	A	A

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8/16/18 14:56	[signature] AAL	8-16-18 14:56
[signature] AAL	8-16-18 17:00	[signature] AAL	8/16/18 17:00

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

Serial_No:08281815:49

CHAIN OF CUSTODY

ALPHA

PAGE 3 OF 3

Date Rec'd in Lab: 8/16/18

ALPHA Job #: L1832241

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Project Information

Project Name: W W Cross Property

Project Location: Jaffrey NH

Project #: 1410.05051.010

Project Manager: Steven Rizkevich

ALPHA Quote #:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #: 11157

Client Information

Client: Ransom Consulting Inc.

Address: 112 Corporate Drive Portsmouth NH 03801

Phone: 603-436-1490

Email: srizkevich@ransomenv.com bonnie.best@ransomenv.com

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES/USEPA Brownfields Criteria Per SSQAPP

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Additional Project Information:
Matrix X1 = Concrete
HOLD All Samples pending email from Ransom

ANALYSIS: VOC: ☒ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☒ PAH 8270; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☒ PCB ☐ PEST Soxhlet extraction 8082; TPH: ☐ Quant Only ☐ Fingerprint; TPH-DRO 8015; Priority Pollutant Metals; Hexavalent Chromium; Cyanide 9010C/9012B

SAMPLE INFO — Filtration: ☐ Field ☐ Lab to do; Preservation: ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Sample Comments
32241-21	CS-DUP2	8-15-18	14:30	X1	BAB	
-22	CS-DUP3	↓	15:05	↓	↓	
-23	TCN-DUP	↓	16:05	S	↓	
-24	Trip Blank					

Container Type: V A A A A A A
Preservative: F A A A A A A A

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8/16/18 14:56	[signature] AAC	8-16-18 14:56
[signature] AAC	8-16-18 17:00	[signature]	8/16/18 1700

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

DRAFT

ANALYTICAL REPORT

Lab Number:	L1836584
Client:	Ransom Consulting, Inc. 112 Corporate Drive Pease International Tradeport Portsmouth, NH 03801
ATTN:	Steve Rickerich
Phone:	(603) 436-1490
Project Name:	WW CROSS PROPERTY
Project Number:	141.05051.010
Report Date:	09/21/18

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1836584
Report Date: 09/21/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1836584-01	MW 4	WATER	JAFFREY, NH	09/13/18 10:00	09/14/18
L1836584-02	MW 2	WATER	JAFFREY, NH	09/13/18 10:30	09/14/18
L1836584-03	MW 2	WATER	JAFFREY, NH	09/13/18 12:30	09/14/18
L1836584-04	TRIP BLANK	WATER	JAFFREY, NH	09/10/18 00:00	09/14/18

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1836584
Project Number:	141.05051.010	**Report Date:**	09/21/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1836584
Project Number:	141.05051.010	**Report Date:**	09/21/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Amita Naik

Title: Technical Director/Representative Date: 09/21/18

ORGANICS

SEMIVOLATILES

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1836584
Report Date: 09/21/18

SAMPLE RESULTS

Lab ID: L1836584-01
Client ID: MW 4
Sample Location: JAFFREY, NH

Date Collected: 09/13/18 10:00
Date Received: 09/14/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/20/18 17:43
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 09/18/18 16:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
1-Methylnaphthalene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	60		15-120
4-Terphenyl-d14	56		41-149

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1836584
Report Date: 09/21/18

SAMPLE RESULTS

Lab ID: L1836584-01
Client ID: MW 4
Sample Location: JAFFREY, NH

Date Collected: 09/13/18 10:00
Date Received: 09/14/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/20/18 20:44
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/19/18 12:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0721	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	21		15-110

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1836584
Report Date: 09/21/18

SAMPLE RESULTS

Lab ID: L1836584-02
Client ID: MW 2
Sample Location: JAFFREY, NH

Date Collected: 09/13/18 10:30
Date Received: 09/14/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/20/18 18:06
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 09/18/18 16:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.12		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Naphthalene	4.6		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	0.39		ug/l	0.10	0.04	1
Anthracene	0.08	J	ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	0.04	J	ug/l	0.10	0.04	1
Phenanthrene	0.02	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
1-Methylnaphthalene	0.99		ug/l	0.10	0.04	1
2-Methylnaphthalene	0.51		ug/l	0.10	0.05	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	58		15-120
4-Terphenyl-d14	63		41-149

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1836584
Report Date: 09/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 09/20/18 16:32
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 09/18/18 15:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG1158230-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Naphthalene	ND		ug/l	0.10	0.04
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
1-Methylnaphthalene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.05

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	60		15-120
4-Terphenyl-d14	67		41-149

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1836584
Report Date: 09/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 09/20/18 19:27
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/19/18 12:45

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01 Batch: WG1158528-1					
1,4-Dioxane	ND		ug/l	0.150	0.0750

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	33		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1836584

Report Date: 09/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG1158230-2 WG1158230-3								
Acenaphthene	73		67		40-140	9		40
2-Chloronaphthalene	79		74		40-140	7		40
Fluoranthene	80		74		40-140	8		40
Naphthalene	69		63		40-140	9		40
Benzo(a)anthracene	71		65		40-140	9		40
Benzo(a)pyrene	77		73		40-140	5		40
Benzo(b)fluoranthene	74		69		40-140	7		40
Benzo(k)fluoranthene	77		73		40-140	5		40
Chrysene	76		71		40-140	7		40
Acenaphthylene	79		73		40-140	8		40
Anthracene	78		73		40-140	7		40
Benzo(ghi)perylene	82		75		40-140	9		40
Fluorene	74		68		40-140	8		40
Phenanthrene	74		68		40-140	8		40
Dibenzo(a,h)anthracene	84		77		40-140	9		40
Indeno(1,2,3-cd)pyrene	82		76		40-140	8		40
Pyrene	81		75		40-140	8		40
1-Methylnaphthalene	79		70		40-140	12		40
2-Methylnaphthalene	78		72		40-140	8		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1836584

Report Date: 09/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG1158230-2 WG1158230-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	76		68		23-120
2-Fluorobiphenyl	68		63		15-120
4-Terphenyl-d14	70		66		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1836584

Report Date: 09/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01 Batch: WG1158528-2 WG1158528-3								
1,4-Dioxane	112		111		40-140	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	32		34		15-110

INORGANICS
&
MISCELLANEOUS

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1836584
Report Date: 09/21/18

SAMPLE RESULTS

Lab ID: L1836584-01
Client ID: MW 4
Sample Location: JAFFREY, NH

Date Collected: 09/13/18 10:00
Date Received: 09/14/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.007		mg/l	0.005	0.001	1	09/17/18 10:50	09/17/18 14:27	1,9010C/9012B	LH
Sulfate	160		mg/l	50	6.8	5	09/18/18 11:49	09/18/18 11:49	121,4500SO4-E	BR

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1836584
Report Date: 09/21/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1157627-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/17/18 10:50	09/17/18 14:15	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1158082-1										
Sulfate	1.9	J	mg/l	10	1.4	1	09/18/18 11:49	09/18/18 11:49	121,4500SO4-E	BR

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1836584

Report Date: 09/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1157627-2 WG1157627-3								
Cyanide, Total	104		98		85-115	6		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1158082-2								
Sulfate	95		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1836584
Report Date: 09/21/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1157627-4 WG1157627-5 QC Sample: L1836584-01 Client ID: MW 4												
Cyanide, Total	0.007	0.2	0.202	97		0.208	100		80-120	3		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1158082-4 QC Sample: L1836584-01 Client ID: MW 4												
Sulfate	160	250	430	108		-	-		55-147	-		14

Lab Duplicate Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1836584

Report Date: 09/21/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1158082-3 QC Sample: L1836584-01 Client ID: MW 4						
Sulfate	160	170	mg/l	6		14

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1836584
Report Date: 09/21/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1836584-01A	Amber 1000ml unpreserved	A	7	7	2.1	Y	Absent		PAHTCL-SIM(7)
L1836584-01B	Amber 1000ml unpreserved	A	7	7	2.1	Y	Absent		PAHTCL-SIM(7)
L1836584-01C	Plastic 120ml unpreserved	A	7	7	2.1	Y	Absent		SO4-4500(28)
L1836584-01D	Plastic 250ml NaOH preserved	A	>12	>12	2.1	Y	Absent		TCN-9010(14)
L1836584-01E	Amber 500ml unpreserved	A	7	7	2.1	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L1836584-01F	Amber 500ml unpreserved	A	7	7	2.1	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L1836584-02A	Amber 1000ml unpreserved	A	7	7	2.1	Y	Absent		PAHTCL-SIM(7)
L1836584-02B	Amber 1000ml unpreserved	A	7	7	2.1	Y	Absent		PAHTCL-SIM(7)
L1836584-03A	Vial HCl preserved	A	N/A	N/A	2.1	Y	Absent		HOLD-8260(14)
L1836584-03B	Vial HCl preserved	A	N/A	N/A	2.1	Y	Absent		HOLD-8260(14)
L1836584-03C	Vial HCl preserved	A	N/A	N/A	2.1	Y	Absent		HOLD-8260(14)
L1836584-03D	Plastic 250ml NaOH preserved	A	>12	>12	2.1	Y	Absent		HOLD-WETCHEM()
L1836584-03E	Plastic 120ml unpreserved	A	7	7	2.1	Y	Absent		HOLD-WETCHEM()
L1836584-04A	Vial HCl preserved	A	N/A	N/A	2.1	Y	Absent		HOLD-8260(14)
L1836584-04B	Vial HCl preserved	A	N/A	N/A	2.1	Y	Absent		HOLD-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1836584
Project Number:	141.05051.010	**Report Date:**	09/21/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1836584
Project Number:	141.05051.010	**Report Date:**	09/21/18

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1836584
Project Number:	141.05051.010	**Report Date:**	09/21/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Serial_No:09211816:19

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab: 9/14/18

ALPHA Job #: L1836584

Client Information

Client: Ransom Consulting
Address: 112 Corporate Dr
Portsmouth, NH
Phone: 603-436-1490
Email: sridkorich@ransomenv.com
bonnie.best@ransomenv.com

Additional Project Information:
PAH samples have been field filtered

Project Information

Project Name: WW Cross Property
Project Location: Jaffrey NH
Project #: 141.05051.010
Project Manager: Steve Rickorich
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☐ Same as Client info PO #: 11152

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods
☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES + US EPA Brownfields Criteria per SSQAPP

ANALYSIS

SAMPLE INFO: Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC: ☒ 8260 ☐ 624 ☐ 524.2	SVOC: ☐ ABN ☒ PAH 8270	METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15	METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13	EPH: ☐ Ranges & Targets ☐ Ranges Only	VPH: ☐ Ranges & Targets ☐ Ranges Only	☐ PCB ☐ PEST	TPH: ☐ Quant Only ☐ Fingerprint	1-4 Dioxane	Total Cyanide	Sulfate (SM4500)	Sample Comments	TOTAL # BOTTLES
36584-01	MW 4	9-13-18	10:00	GW	DAF		X							X	X	X		6
02	MW 2	9-13-18	10:30	GW	DAF		X											2
03	MW 2	9-13-18	12:30	GW	DAF	X									X	X	HOLD	5
04	Trip Blank					X											HOLD	2
	Container Type					V	A							A	P	P		
	Preservative					B	A							A	C	A		

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	9-14-18 12:30	[signature] AAL	9/14/18 12:30
[signature] AAL	9/14/18	Rob Maerto AAL	9-14-18 1930
Rob Maerto	9-14-18 2055	[signature]	9/14/18 2055

FORM NO: 01-01 (rev. 12-Mar-2012)

ANALYTICAL REPORT

Lab Number:	L1835394
Client:	Ransom Consulting, Inc. 112 Corporate Drive Pease International Tradeport Portsmouth, NH 03801
ATTN:	Steve Rickerich
Phone:	(603) 436-1490
Project Name:	WW CROSS PROPERTY
Project Number:	141.05051.010
Report Date:	09/20/18

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1835394
Report Date: 09/20/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1835394-01	MW-1	WATER	JAFFREY, NH	09/06/18 17:01	09/07/18
L1835394-02	MW-2	WATER	JAFFREY, NH	09/06/18 16:53	09/07/18
L1835394-03	MW-3	WATER	JAFFREY, NH	09/06/18 10:38	09/07/18
L1835394-04	MW-4	WATER	JAFFREY, NH	09/06/18 16:00	09/07/18
L1835394-05	MW-5	WATER	JAFFREY, NH	09/06/18 13:11	09/07/18
L1835394-06	MW-6	WATER	JAFFREY, NH	09/06/18 15:07	09/07/18
L1835394-07	MW-7	WATER	JAFFREY, NH	09/06/18 12:02	09/07/18
L1835394-08	MW-8	WATER	JAFFREY, NH	09/06/18 12:32	09/07/18
L1835394-09	GW-DUP	WATER	JAFFREY, NH	09/06/18 12:32	09/07/18
L1835394-10	PFAS-DUP	WATER	JAFFREY, NH	09/06/18 10:38	09/07/18
L1835394-11	FIELD BLANK	WATER	JAFFREY, NH	09/06/18 17:35	09/07/18
L1835394-12	TRIP BLANK	WATER	JAFFREY, NH	09/06/18 00:00	09/07/18

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1835394
Project Number:	141.05051.010	**Report Date:**	09/20/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1835394
Project Number:	141.05051.010	**Report Date:**	09/20/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L1835394-04: Containers for the analysis of PAHs by SIM were received, but were not listed on the chain of custody. The analysis was not performed at the client's request.

L1835394-12: A sample container identified as "TRIP BLANK" was listed on the Chain of Custody, but not received. This was verified by the client.

Cyanide, Total

The WG1155282-4/-5 MS/MSD RPD (21%), performed on L1835394-01, is above the acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 09/20/18

ORGANICS

VOLATILES

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-01
Client ID: MW-1
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 17:01
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/12/18 10:10
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	0.68	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.8	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Tetrachloroethene	2.6		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.24	1
Bromoform	ND		ug/l	2.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	0.75	0.20	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
Chloromethane	ND		ug/l	2.5	0.20	1
Bromomethane	ND		ug/l	1.0	0.26	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	1.0	0.13	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-01 Date Collected: 09/06/18 17:01

Client ID: MW-1 Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
Dibromomethane	ND		ug/l	5.0	0.36	1
1,2,3-Trichloropropane	ND		ug/l	5.0	0.18	1
Styrene	ND		ug/l	1.0	0.36	1
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Acetone	2.3	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Tetrahydrofuran	ND		ug/l	5.0	0.52	1
2,2-Dichloropropane	ND		ug/l	2.5	0.20	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.16	1
Bromobenzene	ND		ug/l	2.5	0.15	1
n-Butylbenzene	ND		ug/l	0.50	0.19	1
sec-Butylbenzene	ND		ug/l	0.50	0.18	1
tert-Butylbenzene	ND		ug/l	2.5	0.20	1
o-Chlorotoluene	ND		ug/l	2.5	0.22	1
p-Chlorotoluene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
Hexachlorobutadiene	ND		ug/l	0.50	0.22	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
p-Isopropyltoluene	ND		ug/l	0.50	0.19	1
Naphthalene	ND		ug/l	2.5	0.22	1
n-Propylbenzene	ND		ug/l	0.50	0.17	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-01 Date Collected: 09/06/18 17:01

Client ID: MW-1 Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,3,5-Trichlorobenzene	ND		ug/l	2.0	0.14	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
Ethyl ether	ND		ug/l	2.5	0.16	1
Isopropyl Ether	ND		ug/l	2.0	0.42	1
Tert-Butyl Alcohol	ND		ug/l	10	1.4	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	0.18	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28	1
1,4-Dioxane	ND		ug/l	250	61.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	102		70-130

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-02
Client ID: MW-2
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 16:53
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/12/18 10:40
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	0.68	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.8	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Tetrachloroethene	5.8		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.24	1
Bromoform	ND		ug/l	2.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.23	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	0.75	0.20	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
Chloromethane	0.43	J	ug/l	2.5	0.20	1
Bromomethane	ND		ug/l	1.0	0.26	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	1.0	0.13	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-02 Date Collected: 09/06/18 16:53

Client ID: MW-2 Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	0.22	J	ug/l	0.50	0.16	1
Trichloroethene	0.67		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
cis-1,2-Dichloroethene	0.22	J	ug/l	0.50	0.19	1
Dibromomethane	ND		ug/l	5.0	0.36	1
1,2,3-Trichloropropane	ND		ug/l	5.0	0.18	1
Styrene	ND		ug/l	1.0	0.36	1
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Acetone	28		ug/l	5.0	1.5	1
Carbon disulfide	0.45	J	ug/l	5.0	0.30	1
2-Butanone	5.7		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	0.57	J	ug/l	5.0	0.42	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Tetrahydrofuran	ND		ug/l	5.0	0.52	1
2,2-Dichloropropane	ND		ug/l	2.5	0.20	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.16	1
Bromobenzene	ND		ug/l	2.5	0.15	1
n-Butylbenzene	ND		ug/l	0.50	0.19	1
sec-Butylbenzene	ND		ug/l	0.50	0.18	1
tert-Butylbenzene	ND		ug/l	2.5	0.20	1
o-Chlorotoluene	ND		ug/l	2.5	0.22	1
p-Chlorotoluene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
Hexachlorobutadiene	ND		ug/l	0.50	0.22	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
p-Isopropyltoluene	ND		ug/l	0.50	0.19	1
Naphthalene	16		ug/l	2.5	0.22	1
n-Propylbenzene	ND		ug/l	0.50	0.17	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-02 Date Collected: 09/06/18 16:53

Client ID: MW-2 Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,3,5-Trimethylbenzene	0.22	J	ug/l	2.5	0.22	1
1,3,5-Trichlorobenzene	ND		ug/l	2.0	0.14	1
1,2,4-Trimethylbenzene	0.26	J	ug/l	2.5	0.19	1
Ethyl ether	ND		ug/l	2.5	0.16	1
Isopropyl Ether	ND		ug/l	2.0	0.42	1
Tert-Butyl Alcohol	2.6	J	ug/l	10	1.4	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	0.18	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28	1
1,4-Dioxane	ND		ug/l	250	61.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	102		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-03
Client ID: MW-3
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 10:38
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/12/18 11:11
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	0.68	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.8	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Tetrachloroethene	0.94		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.24	1
Bromoform	ND		ug/l	2.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	0.75	0.20	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
Chloromethane	ND		ug/l	2.5	0.20	1
Bromomethane	ND		ug/l	1.0	0.26	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	1.0	0.13	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-03 Date Collected: 09/06/18 10:38

Client ID: MW-3 Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
Dibromomethane	ND		ug/l	5.0	0.36	1
1,2,3-Trichloropropane	ND		ug/l	5.0	0.18	1
Styrene	ND		ug/l	1.0	0.36	1
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Tetrahydrofuran	ND		ug/l	5.0	0.52	1
2,2-Dichloropropane	ND		ug/l	2.5	0.20	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.16	1
Bromobenzene	ND		ug/l	2.5	0.15	1
n-Butylbenzene	ND		ug/l	0.50	0.19	1
sec-Butylbenzene	ND		ug/l	0.50	0.18	1
tert-Butylbenzene	ND		ug/l	2.5	0.20	1
o-Chlorotoluene	ND		ug/l	2.5	0.22	1
p-Chlorotoluene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
Hexachlorobutadiene	ND		ug/l	0.50	0.22	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
p-Isopropyltoluene	ND		ug/l	0.50	0.19	1
Naphthalene	ND		ug/l	2.5	0.22	1
n-Propylbenzene	ND		ug/l	0.50	0.17	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-03 Date Collected: 09/06/18 10:38

Client ID: MW-3 Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,3,5-Trichlorobenzene	ND		ug/l	2.0	0.14	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
Ethyl ether	ND		ug/l	2.5	0.16	1
Isopropyl Ether	ND		ug/l	2.0	0.42	1
Tert-Butyl Alcohol	ND		ug/l	10	1.4	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	0.18	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28	1
1,4-Dioxane	ND		ug/l	250	61.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	101		70-130

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-04
Client ID: MW-4
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 16:00
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/12/18 11:41
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	0.68	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.8	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Tetrachloroethene	8.6		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.24	1
Bromoform	ND		ug/l	2.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	0.75	0.20	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
Chloromethane	ND		ug/l	2.5	0.20	1
Bromomethane	ND		ug/l	1.0	0.26	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	1.0	0.13	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-04 Date Collected: 09/06/18 16:00

Client ID: MW-4 Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Trichloroethene	0.22	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
Dibromomethane	ND		ug/l	5.0	0.36	1
1,2,3-Trichloropropane	ND		ug/l	5.0	0.18	1
Styrene	ND		ug/l	1.0	0.36	1
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	0.45	J	ug/l	5.0	0.30	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Tetrahydrofuran	ND		ug/l	5.0	0.52	1
2,2-Dichloropropane	ND		ug/l	2.5	0.20	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.16	1
Bromobenzene	ND		ug/l	2.5	0.15	1
n-Butylbenzene	ND		ug/l	0.50	0.19	1
sec-Butylbenzene	ND		ug/l	0.50	0.18	1
tert-Butylbenzene	ND		ug/l	2.5	0.20	1
o-Chlorotoluene	ND		ug/l	2.5	0.22	1
p-Chlorotoluene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
Hexachlorobutadiene	ND		ug/l	0.50	0.22	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
p-Isopropyltoluene	ND		ug/l	0.50	0.19	1
Naphthalene	ND		ug/l	2.5	0.22	1
n-Propylbenzene	ND		ug/l	0.50	0.17	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-04 Date Collected: 09/06/18 16:00

Client ID: MW-4 Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,3,5-Trichlorobenzene	ND		ug/l	2.0	0.14	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
Ethyl ether	ND		ug/l	2.5	0.16	1
Isopropyl Ether	ND		ug/l	2.0	0.42	1
Tert-Butyl Alcohol	ND		ug/l	10	1.4	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	0.18	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28	1
1,4-Dioxane	ND		ug/l	250	61.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	100		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-05
Client ID: MW-5
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 13:11
Date Received: 09/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/12/18 12:11
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	0.68	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.8	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	96		ug/l	0.50	0.18	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.24	1
Bromoform	ND		ug/l	2.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.30	J	ug/l	0.50	0.16	1
Toluene	0.57	J	ug/l	0.75	0.20	1
Ethylbenzene	0.54		ug/l	0.50	0.17	1
Chloromethane	ND		ug/l	2.5	0.20	1
Bromomethane	ND		ug/l	1.0	0.26	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	1.0	0.13	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-05 Date Collected: 09/06/18 13:11

Client ID: MW-5 Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	0.49	J	ug/l	0.50	0.16	1
Trichloroethene	1.0		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	120		ug/l	2.5	0.18	1
1,3-Dichlorobenzene	6.7		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	9.6		ug/l	2.5	0.19	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
p/m-Xylene	0.71	J	ug/l	1.0	0.33	1
o-Xylene	0.66	J	ug/l	1.0	0.39	1
Xylenes, Total	1.4	J	ug/l	1.0	0.33	1
cis-1,2-Dichloroethene	0.49	J	ug/l	0.50	0.19	1
Dibromomethane	ND		ug/l	5.0	0.36	1
1,2,3-Trichloropropane	ND		ug/l	5.0	0.18	1
Styrene	ND		ug/l	1.0	0.36	1
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Tetrahydrofuran	ND		ug/l	5.0	0.52	1
2,2-Dichloropropane	ND		ug/l	2.5	0.20	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.16	1
Bromobenzene	ND		ug/l	2.5	0.15	1
n-Butylbenzene	ND		ug/l	0.50	0.19	1
sec-Butylbenzene	ND		ug/l	0.50	0.18	1
tert-Butylbenzene	ND		ug/l	2.5	0.20	1
o-Chlorotoluene	ND		ug/l	2.5	0.22	1
p-Chlorotoluene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
Hexachlorobutadiene	ND		ug/l	0.50	0.22	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
p-Isopropyltoluene	0.49	J	ug/l	0.50	0.19	1
Naphthalene	30		ug/l	2.5	0.22	1
n-Propylbenzene	0.19	J	ug/l	0.50	0.17	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-05 Date Collected: 09/06/18 13:11

Client ID: MW-5 Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,3,5-Trimethylbenzene	1.0	J	ug/l	2.5	0.22	1
1,3,5-Trichlorobenzene	ND		ug/l	2.0	0.14	1
1,2,4-Trimethylbenzene	5.6		ug/l	2.5	0.19	1
Ethyl ether	ND		ug/l	2.5	0.16	1
Isopropyl Ether	ND		ug/l	2.0	0.42	1
Tert-Butyl Alcohol	ND		ug/l	10	1.4	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	0.18	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28	1
1,4-Dioxane	ND		ug/l	250	61.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Project Name: WW CROSS PROPERTY
Lab Number: L1835394
Project Number: 141.05051.010
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-06
Client ID: MW-6
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 15:07
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/12/18 12:41
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	0.68	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.8	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Tetrachloroethene	1.4		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.24	1
Bromoform	ND		ug/l	2.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	0.75	0.20	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
Chloromethane	ND		ug/l	2.5	0.20	1
Bromomethane	ND		ug/l	1.0	0.26	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	1.0	0.13	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-06 Date Collected: 09/06/18 15:07

Client ID: MW-6 Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	1.7		ug/l	0.50	0.16	1
Trichloroethene	0.76		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	0.31	J	ug/l	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
cis-1,2-Dichloroethene	1.7		ug/l	0.50	0.19	1
Dibromomethane	ND		ug/l	5.0	0.36	1
1,2,3-Trichloropropane	ND		ug/l	5.0	0.18	1
Styrene	ND		ug/l	1.0	0.36	1
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Tetrahydrofuran	ND		ug/l	5.0	0.52	1
2,2-Dichloropropane	ND		ug/l	2.5	0.20	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.16	1
Bromobenzene	ND		ug/l	2.5	0.15	1
n-Butylbenzene	ND		ug/l	0.50	0.19	1
sec-Butylbenzene	ND		ug/l	0.50	0.18	1
tert-Butylbenzene	ND		ug/l	2.5	0.20	1
o-Chlorotoluene	ND		ug/l	2.5	0.22	1
p-Chlorotoluene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
Hexachlorobutadiene	ND		ug/l	0.50	0.22	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
p-Isopropyltoluene	ND		ug/l	0.50	0.19	1
Naphthalene	0.54	J	ug/l	2.5	0.22	1
n-Propylbenzene	ND		ug/l	0.50	0.17	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-06 Date Collected: 09/06/18 15:07

Client ID: MW-6 Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,3,5-Trichlorobenzene	ND		ug/l	2.0	0.14	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
Ethyl ether	ND		ug/l	2.5	0.16	1
Isopropyl Ether	ND		ug/l	2.0	0.42	1
Tert-Butyl Alcohol	ND		ug/l	10	1.4	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	0.18	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28	1
1,4-Dioxane	ND		ug/l	250	61.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	100		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-07
Client ID: MW-7
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 12:02
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/12/18 13:12
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	0.68	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.8	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.24	1
Bromoform	ND		ug/l	2.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	0.75	0.20	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
Chloromethane	ND		ug/l	2.5	0.20	1
Bromomethane	ND		ug/l	1.0	0.26	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	1.0	0.13	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-07 Date Collected: 09/06/18 12:02

Client ID: MW-7 Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
Dibromomethane	ND		ug/l	5.0	0.36	1
1,2,3-Trichloropropane	ND		ug/l	5.0	0.18	1
Styrene	ND		ug/l	1.0	0.36	1
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Tetrahydrofuran	ND		ug/l	5.0	0.52	1
2,2-Dichloropropane	ND		ug/l	2.5	0.20	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.16	1
Bromobenzene	ND		ug/l	2.5	0.15	1
n-Butylbenzene	ND		ug/l	0.50	0.19	1
sec-Butylbenzene	ND		ug/l	0.50	0.18	1
tert-Butylbenzene	ND		ug/l	2.5	0.20	1
o-Chlorotoluene	ND		ug/l	2.5	0.22	1
p-Chlorotoluene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
Hexachlorobutadiene	ND		ug/l	0.50	0.22	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
p-Isopropyltoluene	ND		ug/l	0.50	0.19	1
Naphthalene	1.1	J	ug/l	2.5	0.22	1
n-Propylbenzene	ND		ug/l	0.50	0.17	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-07 Date Collected: 09/06/18 12:02

Client ID: MW-7 Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22	1
1,3,5-Trichlorobenzene	ND		ug/l	2.0	0.14	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19	1
Ethyl ether	ND		ug/l	2.5	0.16	1
Isopropyl Ether	ND		ug/l	2.0	0.42	1
Tert-Butyl Alcohol	ND		ug/l	10	1.4	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	0.18	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28	1
1,4-Dioxane	ND		ug/l	250	61.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	100		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-08
Client ID: MW-8
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 12:32
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/12/18 13:42
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	0.68	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.8	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.24	1
Bromoform	ND		ug/l	2.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	0.75	0.20	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
Chloromethane	ND		ug/l	2.5	0.20	1
Bromomethane	ND		ug/l	1.0	0.26	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	1.0	0.13	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-08 Date Collected: 09/06/18 12:32

Client ID: MW-8 Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	0.50		ug/l	0.50	0.16	1
Trichloroethene	0.33	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
cis-1,2-Dichloroethene	0.50		ug/l	0.50	0.19	1
Dibromomethane	ND		ug/l	5.0	0.36	1
1,2,3-Trichloropropane	ND		ug/l	5.0	0.18	1
Styrene	ND		ug/l	1.0	0.36	1
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Tetrahydrofuran	ND		ug/l	5.0	0.52	1
2,2-Dichloropropane	ND		ug/l	2.5	0.20	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.16	1
Bromobenzene	ND		ug/l	2.5	0.15	1
n-Butylbenzene	ND		ug/l	0.50	0.19	1
sec-Butylbenzene	ND		ug/l	0.50	0.18	1
tert-Butylbenzene	ND		ug/l	2.5	0.20	1
o-Chlorotoluene	ND		ug/l	2.5	0.22	1
p-Chlorotoluene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
Hexachlorobutadiene	ND		ug/l	0.50	0.22	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
p-Isopropyltoluene	ND		ug/l	0.50	0.19	1
Naphthalene	180		ug/l	2.5	0.22	1
n-Propylbenzene	ND		ug/l	0.50	0.17	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-08 Date Collected: 09/06/18 12:32

Client ID: MW-8 Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,3,5-Trimethylbenzene	0.38	J	ug/l	2.5	0.22	1
1,3,5-Trichlorobenzene	ND		ug/l	2.0	0.14	1
1,2,4-Trimethylbenzene	1.0	J	ug/l	2.5	0.19	1
Ethyl ether	ND		ug/l	2.5	0.16	1
Isopropyl Ether	ND		ug/l	2.0	0.42	1
Tert-Butyl Alcohol	ND		ug/l	10	1.4	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	0.18	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28	1
1,4-Dioxane	ND		ug/l	250	61.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	101		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-09
Client ID: GW-DUP
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 12:32
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/12/18 14:12
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	0.68	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.8	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.24	1
Bromoform	ND		ug/l	2.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	0.75	0.20	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
Chloromethane	ND		ug/l	2.5	0.20	1
Bromomethane	ND		ug/l	1.0	0.26	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	1.0	0.13	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-09 Date Collected: 09/06/18 12:32

Client ID: GW-DUP Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichloroethene, Total	0.46	J	ug/l	0.50	0.16	1
Trichloroethene	0.33	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
p/m-Xylene	0.33	J	ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.39	1
Xylenes, Total	0.33	J	ug/l	1.0	0.33	1
cis-1,2-Dichloroethene	0.46	J	ug/l	0.50	0.19	1
Dibromomethane	ND		ug/l	5.0	0.36	1
1,2,3-Trichloropropane	ND		ug/l	5.0	0.18	1
Styrene	ND		ug/l	1.0	0.36	1
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Tetrahydrofuran	ND		ug/l	5.0	0.52	1
2,2-Dichloropropane	ND		ug/l	2.5	0.20	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.16	1
Bromobenzene	ND		ug/l	2.5	0.15	1
n-Butylbenzene	ND		ug/l	0.50	0.19	1
sec-Butylbenzene	ND		ug/l	0.50	0.18	1
tert-Butylbenzene	ND		ug/l	2.5	0.20	1
o-Chlorotoluene	ND		ug/l	2.5	0.22	1
p-Chlorotoluene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
Hexachlorobutadiene	ND		ug/l	0.50	0.22	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
p-Isopropyltoluene	ND		ug/l	0.50	0.19	1
Naphthalene	180		ug/l	2.5	0.22	1
n-Propylbenzene	ND		ug/l	0.50	0.17	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-09 Date Collected: 09/06/18 12:32

Client ID: GW-DUP Date Received: 09/07/18

Sample Location: JAFFREY, NH Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,3,5-Trimethylbenzene	0.36	J	ug/l	2.5	0.22	1
1,3,5-Trichlorobenzene	ND		ug/l	2.0	0.14	1
1,2,4-Trimethylbenzene	1.0	J	ug/l	2.5	0.19	1
Ethyl ether	ND		ug/l	2.5	0.16	1
Isopropyl Ether	ND		ug/l	2.0	0.42	1
Tert-Butyl Alcohol	ND		ug/l	10	1.4	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	0.18	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28	1
1,4-Dioxane	ND		ug/l	250	61.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	100		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/12/18 07:09
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1156045-5					
Methylene chloride	ND		ug/l	3.0	0.68
1,1-Dichloroethane	ND		ug/l	0.75	0.21
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.8	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	0.50	0.18
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.24
Bromoform	ND		ug/l	2.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	0.75	0.20
Ethylbenzene	ND		ug/l	0.50	0.17
Chloromethane	ND		ug/l	2.5	0.20
Bromomethane	ND		ug/l	1.0	0.26
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	1.0	0.13
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/12/18 07:09
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1156045-5					
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
Methyl tert butyl ether	ND		ug/l	1.0	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylenes, Total	ND		ug/l	1.0	0.33
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
Dibromomethane	ND		ug/l	5.0	0.36
1,2,3-Trichloropropane	ND		ug/l	5.0	0.18
Styrene	ND		ug/l	1.0	0.36
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	0.30
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
2-Hexanone	ND		ug/l	5.0	0.52
Bromochloromethane	ND		ug/l	2.5	0.15
Tetrahydrofuran	ND		ug/l	5.0	0.52
2,2-Dichloropropane	ND		ug/l	2.5	0.20
1,2-Dibromoethane	ND		ug/l	2.0	0.19
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.16
Bromobenzene	ND		ug/l	2.5	0.15
n-Butylbenzene	ND		ug/l	0.50	0.19
sec-Butylbenzene	ND		ug/l	0.50	0.18
tert-Butylbenzene	ND		ug/l	2.5	0.20
o-Chlorotoluene	ND		ug/l	2.5	0.22
p-Chlorotoluene	ND		ug/l	2.5	0.18

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/12/18 07:09
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1156045-5					
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
Hexachlorobutadiene	ND		ug/l	0.50	0.22
Isopropylbenzene	ND		ug/l	0.50	0.19
p-Isopropyltoluene	ND		ug/l	0.50	0.19
Naphthalene	ND		ug/l	2.5	0.22
n-Propylbenzene	ND		ug/l	0.50	0.17
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.22
1,3,5-Trichlorobenzene	ND		ug/l	2.0	0.14
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
Ethyl ether	ND		ug/l	2.5	0.16
Isopropyl Ether	ND		ug/l	2.0	0.42
Tert-Butyl Alcohol	ND		ug/l	10	1.4
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	0.18
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28
1,4-Dioxane	ND		ug/l	250	61.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1835394

Report Date: 09/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1156045-3 WG1156045-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	120		110		70-130	9		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	91		92		63-130	1		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	87		84		70-130	4		20
Chlorobenzene	92		91		75-130	1		25
Trichlorofluoromethane	91		90		62-150	1		20
1,2-Dichloroethane	120		110		70-130	9		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	98		98		70-130	0		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	110		100		70-130	10		20
Bromoform	92		92		54-136	0		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	100		100		70-130	0		25
Toluene	99		96		70-130	3		25
Ethylbenzene	99		97		70-130	2		20
Chloromethane	100		100		64-130	0		20
Bromomethane	110		100		39-139	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1835394

Report Date: 09/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1156045-3 WG1156045-4								
Vinyl chloride	100		100		55-140	0		20
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	92		89		61-145	3		25
trans-1,2-Dichloroethene	98		97		70-130	1		20
Trichloroethene	100		97		70-130	3		25
1,2-Dichlorobenzene	89		86		70-130	3		20
1,3-Dichlorobenzene	87		85		70-130	2		20
1,4-Dichlorobenzene	87		86		70-130	1		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	95		90		70-130	5		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	100		97		70-130	3		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	100		100		64-130	0		20
Styrene	90		90		70-130	0		20
Dichlorodifluoromethane	67		65		36-147	3		20
Acetone	130		130		58-148	0		20
Carbon disulfide	96		94		51-130	2		20
2-Butanone	130		130		63-138	0		20
4-Methyl-2-pentanone	110		110		59-130	0		20
2-Hexanone	110		110		57-130	0		20
Bromochloromethane	89		90		70-130	1		20
Tetrahydrofuran	110		110		58-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1835394

Report Date: 09/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1156045-3 WG1156045-4								
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	91		91		70-130	0		20
1,1,1,2-Tetrachloroethane	91		89		64-130	2		20
Bromobenzene	86		83		70-130	4		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	96		93		70-130	3		20
tert-Butylbenzene	91		88		70-130	3		20
o-Chlorotoluene	100		99		70-130	1		20
p-Chlorotoluene	98		96		70-130	2		20
1,2-Dibromo-3-chloropropane	79		77		41-144	3		20
Hexachlorobutadiene	79		76		63-130	4		20
Isopropylbenzene	95		93		70-130	2		20
p-Isopropyltoluene	91		90		70-130	1		20
Naphthalene	100		99		70-130	1		20
n-Propylbenzene	100		98		69-130	2		20
1,2,3-Trichlorobenzene	94		90		70-130	4		20
1,2,4-Trichlorobenzene	93		90		70-130	3		20
1,3,5-Trimethylbenzene	99		96		64-130	3		20
1,3,5-Trichlorobenzene	90		88		70-130	2		20
1,2,4-Trimethylbenzene	100		99		70-130	1		20
Ethyl ether	98		97		59-134	1		20
Isopropyl Ether	130		130		70-130	0		20
Tert-Butyl Alcohol	118		118		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1835394

Report Date: 09/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1156045-3 WG1156045-4								
Ethyl-Tert-Butyl-Ether	110		110		70-130	0		20
Tertiary-Amyl Methyl Ether	100		100		66-130	0		20
1,4-Dioxane	114		112		56-162	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		108		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	107		105		70-130
Dibromofluoromethane	100		99		70-130

SEMIVOLATILES

Project Name: WW CROSS PROPERTY
Lab Number: L1835394
Project Number: 141.05051.010
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-01
Client ID: MW-1
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 17:01
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/13/18 13:39
Analyst: RS

Extraction Method: EPA 3510C
Extraction Date: 09/11/18 08:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0721	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	23		15-110

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-01
Client ID: MW-1
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 17:01
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/15/18 21:23
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 09/12/18 07:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
1-Methylnaphthalene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	60		15-120
4-Terphenyl-d14	56		41-149

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-02
Client ID: MW-2
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 16:53
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/13/18 14:08
Analyst: RS

Extraction Method: EPA 3510C
Extraction Date: 09/11/18 08:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.139	0.0694	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	25		15-110

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-02
Client ID: MW-2
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 16:53
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 09/19/18 18:05
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 09/14/18 08:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	2.46		ng/l	1.82	0.120	1
Perfluoropentanoic Acid (PFPeA)	1.91		ng/l	1.82	0.078	1
Perfluorobutanesulfonic Acid (PFBS)	1.34	J	ng/l	1.82	0.100	1
Perfluorohexanoic Acid (PFHxA)	2.19		ng/l	1.82	0.115	1
Perfluoroheptanoic Acid (PFHpA)	2.04		ng/l	1.82	0.084	1
Perfluorohexanesulfonic Acid (PFHxS)	6.46		ng/l	1.82	0.098	1
Perfluorooctanoic Acid (PFOA)	6.23		ng/l	1.82	0.046	1
Perfluorononanoic Acid (PFNA)	0.449	J	ng/l	1.82	0.092	1
Perfluorooctanesulfonic Acid (PFOS)	13.8		ng/l	1.82	0.102	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	82		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	86		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	79		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	82		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	85		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		36-149
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	82		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	82		42-146

Project Name: WW CROSS PROPERTY
Lab Number: L1835394
Project Number: 141.05051.010
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-03
Client ID: MW-3
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 10:38
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/13/18 14:38
Analyst: RS

Extraction Method: EPA 3510C
Extraction Date: 09/11/18 08:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0721	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	23		15-110

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-03
Client ID: MW-3
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 10:38
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/15/18 21:46
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 09/12/18 07:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
1-Methylnaphthalene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	53		15-120
4-Terphenyl-d14	63		41-149

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-03
Client ID: MW-3
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 10:38
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 09/19/18 18:21
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 09/14/18 08:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	6.11		ng/l	1.78	0.117	1
Perfluoropentanoic Acid (PFPeA)	3.27		ng/l	1.78	0.076	1
Perfluorobutanesulfonic Acid (PFBS)	1.17	J	ng/l	1.78	0.098	1
Perfluorohexanoic Acid (PFHxA)	3.93		ng/l	1.78	0.113	1
Perfluoroheptanoic Acid (PFHpA)	2.25		ng/l	1.78	0.083	1
Perfluorohexanesulfonic Acid (PFHxS)	0.925	J	ng/l	1.78	0.096	1
Perfluorooctanoic Acid (PFOA)	4.00		ng/l	1.78	0.045	1
Perfluorononanoic Acid (PFNA)	0.968	J	ng/l	1.78	0.090	1
Perfluorooctanesulfonic Acid (PFOS)	6.28		ng/l	1.78	0.100	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	82		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	84		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	81		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	82		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		36-149
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	72		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	83		42-146

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-05
Client ID: MW-5
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 13:11
Date Received: 09/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/15/18 22:34
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 09/12/18 07:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs by GC/MS-SIM - Westborough Lab						
Acenaphthene	4.5		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.39		ug/l	0.10	0.04	1
Naphthalene	5.0		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	4.4		ug/l	0.10	0.04	1
Anthracene	0.14		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	1.6		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	0.30		ug/l	0.10	0.04	1
1-Methylnaphthalene	7.3		ug/l	0.10	0.04	1
2-Methylnaphthalene	3.2		ug/l	0.10	0.05	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	64		15-120
4-Terphenyl-d14	64		41-149

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-06
Client ID: MW-6
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 15:07
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/13/18 15:07
Analyst: RS

Extraction Method: EPA 3510C
Extraction Date: 09/11/18 08:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0721	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	26		15-110

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-06
Client ID: MW-6
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 15:07
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/15/18 22:57
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 09/12/18 07:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Naphthalene	0.10		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
1-Methylnaphthalene	0.08	J	ug/l	0.10	0.04	1
2-Methylnaphthalene	0.05	J	ug/l	0.10	0.05	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	69		15-120
4-Terphenyl-d14	73		41-149

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-07
Client ID: MW-7
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 12:02
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/16/18 20:51
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 09/12/18 07:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
1-Methylnaphthalene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	67		15-120
4-Terphenyl-d14	61		41-149

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-08
Client ID: MW-8
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 12:32
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/13/18 15:37
Analyst: RS

Extraction Method: EPA 3510C
Extraction Date: 09/11/18 08:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0721	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	29		15-110

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-08
Client ID: MW-8
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 12:32
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/16/18 20:28
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 09/12/18 07:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs by GC/MS-SIM - Westborough Lab						
Acenaphthene	3.8		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	2.6		ug/l	0.10	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.09	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	0.09	J	ug/l	0.10	0.04	1
Acenaphthylene	3.5		ug/l	0.10	0.04	1
Anthracene	1.8		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	10		ug/l	0.10	0.04	1
Phenanthrene	12		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	1.9		ug/l	0.10	0.04	1
1-Methylnaphthalene	11		ug/l	0.10	0.04	1
2-Methylnaphthalene	2.6		ug/l	0.10	0.05	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	66		15-120
4-Terphenyl-d14	71		41-149

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-09
Client ID: GW-DUP
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 12:32
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/13/18 16:06
Analyst: RS

Extraction Method: EPA 3510C
Extraction Date: 09/11/18 08:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/l	0.144	0.0721	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	26		15-110

Project Name: WW CROSS PROPERTY
Lab Number: L1835394
Project Number: 141.05051.010
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-09
Client ID: GW-DUP
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 12:32
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/16/18 20:04
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 09/12/18 07:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs by GC/MS-SIM - Westborough Lab						
Acenaphthene	4.2		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	2.7		ug/l	0.10	0.04	1
Naphthalene	36	E	ug/l	0.10	0.04	1
Benzo(a)anthracene	0.10		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	0.10	J	ug/l	0.10	0.04	1
Acenaphthylene	5.1		ug/l	0.10	0.04	1
Anthracene	2.5		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	12		ug/l	0.10	0.04	1
Phenanthrene	20		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	1.9		ug/l	0.10	0.04	1
1-Methylnaphthalene	19		ug/l	0.10	0.04	1
2-Methylnaphthalene	18		ug/l	0.10	0.05	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	61		15-120
4-Terphenyl-d14	69		41-149

Project Name: WW CROSS PROPERTY
Lab Number: L1835394
Project Number: 141.05051.010
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-09 D
Client ID: GW-DUP
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 12:32
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 09/18/18 12:23
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 09/12/18 07:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs by GC/MS-SIM - Westborough Lab						
Naphthalene	45		ug/l	0.50	0.22	5

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-10
Client ID: PFAS-DUP
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 10:38
Date Received: 09/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 09/19/18 18:54
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 09/14/18 08:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	6.28		ng/l	1.78	0.117	1
Perfluoropentanoic Acid (PFPeA)	3.16		ng/l	1.78	0.076	1
Perfluorobutanesulfonic Acid (PFBS)	1.30	J	ng/l	1.78	0.098	1
Perfluorohexanoic Acid (PFHxA)	3.97		ng/l	1.78	0.113	1
Perfluoroheptanoic Acid (PFHpA)	2.38		ng/l	1.78	0.083	1
Perfluorohexanesulfonic Acid (PFHxS)	0.889	J	ng/l	1.78	0.096	1
Perfluorooctanoic Acid (PFOA)	4.45		ng/l	1.78	0.045	1
Perfluorononanoic Acid (PFNA)	1.05	J	ng/l	1.78	0.090	1
Perfluorooctanesulfonic Acid (PFOS)	4.81		ng/l	1.78	0.100	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	77		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	78		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	101		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	75		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	78		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	88		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	75		36-149
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	73		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	84		42-146

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-11
Client ID: FIELD BLANK
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 17:35
Date Received: 09/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 09/19/18 17:48
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 09/14/18 08:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.78	0.117	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.78	0.076	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.78	0.098	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.78	0.113	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.78	0.083	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.78	0.096	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.78	0.045	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.78	0.090	1
Perfluorooctanesulfonic Acid (PFOS)	0.375	J	ng/l	1.78	0.100	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	79		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	87		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	86		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	82		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		36-149
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	82		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	74		42-146

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 09/12/18 18:11
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 09/11/18 08:45

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01-03,06,08-09 Batch: WG1155488-1					
1,4-Dioxane	ND		ug/l	0.150	0.0750

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	29		15-110

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 09/13/18 17:29
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 09/12/18 07:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,03,05-09 Batch: WG1155945-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Naphthalene	ND		ug/l	0.10	0.04
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
1-Methylnaphthalene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.05

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	72		15-120
4-Terphenyl-d14	75		41-149

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1835394
Report Date: 09/20/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 09/19/18 16:58
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 09/14/18 08:51

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 02-03,10-11 Batch: WG1156838-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.131
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.086
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.110
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.126
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.092
Perfluorohexanesulfonic Acid (PFHxS)	0.228	J	ng/l	2.00	0.108
Perfluorooctanoic Acid (PFOA)	0.220	J	ng/l	2.00	0.050
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.101
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.112

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	112		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		36-149
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		42-146

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1835394

Report Date: 09/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01-03,06,08-09 Batch: WG1155488-2 WG1155488-3								
1,4-Dioxane	114		128		40-140	12		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	28		28		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1835394

Report Date: 09/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,03,05-09 Batch: WG1155945-2 WG1155945-3								
Acenaphthene	76		71		40-140	7		40
2-Chloronaphthalene	76		74		40-140	3		40
Fluoranthene	92		80		40-140	14		40
Naphthalene	70		68		40-140	3		40
Benzo(a)anthracene	93		80		40-140	15		40
Benzo(a)pyrene	96		82		40-140	16		40
Benzo(b)fluoranthene	90		77		40-140	16		40
Benzo(k)fluoranthene	89		76		40-140	16		40
Chrysene	89		76		40-140	16		40
Acenaphthylene	83		80		40-140	4		40
Anthracene	87		78		40-140	11		40
Benzo(ghi)perylene	97		79		40-140	20		40
Fluorene	87		80		40-140	8		40
Phenanthrene	84		75		40-140	11		40
Dibenzo(a,h)anthracene	102		83		40-140	21		40
Indeno(1,2,3-cd)pyrene	92		76		40-140	19		40
Pyrene	90		78		40-140	14		40
1-Methylnaphthalene	74		72		40-140	3		40
2-Methylnaphthalene	80		77		40-140	4		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1835394

Report Date: 09/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,03,05-09 Batch: WG1155945-2 WG1155945-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	62		61		23-120
2-Fluorobiphenyl	69		67		15-120
4-Terphenyl-d14	73		64		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1835394

Report Date: 09/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 02-03,10-11 Batch: WG1156838-2 WG1156838-3								
Perfluorobutanoic Acid (PFBA)	110		109		67-148	1		30
Perfluoropentanoic Acid (PFPeA)	114		112		63-161	2		30
Perfluorobutanesulfonic Acid (PFBS)	111		111		65-157	0		30
Perfluorohexanoic Acid (PFHxA)	117		122		69-168	4		30
Perfluoroheptanoic Acid (PFHpA)	109		103		58-159	6		30
Perfluorohexanesulfonic Acid (PFHxS)	104		113		69-177	8		30
Perfluorooctanoic Acid (PFOA)	106		106		63-159	0		30
Perfluorononanoic Acid (PFNA)	116		117		68-171	1		30
Perfluorooctanesulfonic Acid (PFOS)	91		95		52-151	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	87		83		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	101		97		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		101		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		79		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		87		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		97		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		81		36-149
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	85		79		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		91		42-146

Matrix Spike Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1835394

Report Date: 09/20/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 02-03,10-11 QC Batch ID: WG1156838-4 QC Sample: L1835394-03 Client ID: MW-3												
Perfluorobutanoic Acid (PFBA)	6.11	35.1	43.9	108		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	3.27	35.1	41.7	110		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	1.17J	35.1	38.4	109		-	-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	3.93	35.1	42.6	110		-	-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	2.25	35.1	37.6	101		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	0.925J	35.1	41.3	118		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	4.00	35.1	40.8	105		-	-		63-159	-		30
Perfluorononanoic Acid (PFNA)	0.968J	35.1	40.6	116		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	6.28	35.1	43.2	105		-	-		52-151	-		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	80				21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	84				30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96				47-153
Perfluoro[13C4]Butanoic Acid (MPFBA)	82				2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	84				16-173
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	71				42-146
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81				36-149
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	71				34-146
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105				31-159

Lab Duplicate Analysis
Batch Quality Control

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1835394
Report Date: 09/20/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 02-03,10-11 QC Batch ID: WG1156838-5 QC Sample: L1835394-10 Client ID: PFAS-DUP						
Perfluorobutanoic Acid (PFBA)	6.28	6.05	ng/l	4		30
Perfluoropentanoic Acid (PFPeA)	3.16	3.46	ng/l	9		30
Perfluorobutanesulfonic Acid (PFBS)	1.30J	1.54J	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	3.97	3.94	ng/l	1		30
Perfluoroheptanoic Acid (PFHpA)	2.38	2.32	ng/l	3		30
Perfluorohexanesulfonic Acid (PFHxS)	0.889J	1.21J	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	4.45	4.13	ng/l	7		30
Perfluorononanoic Acid (PFNA)	1.05J	0.918J	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	4.81	5.08	ng/l	5		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	77		81		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	78		82		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	101		103		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	75		79		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	78		86		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	88		100		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	75		81		36-149
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	73		73		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	84		80		42-146

METALS

Project Name: WW CROSS PROPERTY
Lab Number: L1835394
Project Number: 141.05051.010
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-01
Client ID: MW-1
Sample Location: JAFFREY, NH
Date Collected: 09/06/18 17:01
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Antimony, Dissolved	0.00049	J	mg/l	0.00400	0.00042	1	09/15/18 11:45	09/17/18 16:49	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.004	J	mg/l	0.005	0.002	1	09/15/18 11:45	09/17/18 20:08	EPA 3005A	1,6010D	LC
Beryllium, Dissolved	ND		mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 20:08	EPA 3005A	1,6010D	LC
Cadmium, Dissolved	0.003	J	mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 20:08	EPA 3005A	1,6010D	LC
Chromium, Dissolved	ND		mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 20:08	EPA 3005A	1,6010D	LC
Copper, Dissolved	ND		mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 20:08	EPA 3005A	1,6010D	LC
Lead, Dissolved	ND		mg/l	0.010	0.003	1	09/15/18 11:45	09/17/18 20:08	EPA 3005A	1,6010D	LC
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	09/12/18 14:14	09/13/18 00:05	EPA 7470A	1,7470A	EA
Nickel, Dissolved	ND		mg/l	0.025	0.002	1	09/15/18 11:45	09/17/18 20:08	EPA 3005A	1,6010D	LC
Selenium, Dissolved	ND		mg/l	0.010	0.004	1	09/15/18 11:45	09/17/18 20:08	EPA 3005A	1,6010D	LC
Silver, Dissolved	ND		mg/l	0.007	0.003	1	09/15/18 11:45	09/17/18 20:08	EPA 3005A	1,6010D	LC
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	09/15/18 11:45	09/17/18 16:49	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.050	0.002	1	09/15/18 11:45	09/17/18 20:08	EPA 3005A	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1835394
Project Number: 141.05051.010
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-02
Client ID: MW-2
Sample Location: JAFFREY, NH
Date Collected: 09/06/18 16:53
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	09/15/18 11:45	09/17/18 16:54	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.002	J	mg/l	0.005	0.002	1	09/15/18 11:45	09/17/18 22:35	EPA 3005A	1,6010D	LC
Beryllium, Dissolved	ND		mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 22:35	EPA 3005A	1,6010D	LC
Cadmium, Dissolved	0.002	J	mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 22:35	EPA 3005A	1,6010D	LC
Chromium, Dissolved	ND		mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 22:35	EPA 3005A	1,6010D	LC
Copper, Dissolved	0.026		mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 22:35	EPA 3005A	1,6010D	LC
Lead, Dissolved	ND		mg/l	0.010	0.003	1	09/15/18 11:45	09/17/18 22:35	EPA 3005A	1,6010D	LC
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	09/12/18 14:14	09/13/18 00:10	EPA 7470A	1,7470A	EA
Nickel, Dissolved	ND		mg/l	0.025	0.002	1	09/15/18 11:45	09/17/18 22:35	EPA 3005A	1,6010D	LC
Selenium, Dissolved	ND		mg/l	0.010	0.004	1	09/15/18 11:45	09/17/18 22:35	EPA 3005A	1,6010D	LC
Silver, Dissolved	ND		mg/l	0.007	0.003	1	09/15/18 11:45	09/17/18 22:35	EPA 3005A	1,6010D	LC
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	09/15/18 11:45	09/17/18 16:54	EPA 3005A	1,6020B	AM
Zinc, Dissolved	0.021	J	mg/l	0.050	0.002	1	09/15/18 11:45	09/17/18 22:35	EPA 3005A	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1835394
Project Number: 141.05051.010
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-03
Client ID: MW-3
Sample Location: JAFFREY, NH
Date Collected: 09/06/18 10:38
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Antimony, Dissolved	0.00168	J	mg/l	0.00400	0.00042	1	09/15/18 11:45	09/17/18 16:58	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	ND		mg/l	0.005	0.002	1	09/15/18 11:45	09/17/18 23:14	EPA 3005A	1,6010D	LC
Beryllium, Dissolved	ND		mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 23:14	EPA 3005A	1,6010D	LC
Cadmium, Dissolved	ND		mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 23:14	EPA 3005A	1,6010D	LC
Chromium, Dissolved	ND		mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 23:14	EPA 3005A	1,6010D	LC
Copper, Dissolved	ND		mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 23:14	EPA 3005A	1,6010D	LC
Lead, Dissolved	ND		mg/l	0.010	0.003	1	09/15/18 11:45	09/17/18 23:14	EPA 3005A	1,6010D	LC
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	09/12/18 14:14	09/13/18 00:12	EPA 7470A	1,7470A	EA
Nickel, Dissolved	ND		mg/l	0.025	0.002	1	09/15/18 11:45	09/17/18 23:14	EPA 3005A	1,6010D	LC
Selenium, Dissolved	ND		mg/l	0.010	0.004	1	09/15/18 11:45	09/17/18 23:14	EPA 3005A	1,6010D	LC
Silver, Dissolved	ND		mg/l	0.007	0.003	1	09/15/18 11:45	09/17/18 23:14	EPA 3005A	1,6010D	LC
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	09/15/18 11:45	09/17/18 16:58	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.050	0.002	1	09/15/18 11:45	09/17/18 23:14	EPA 3005A	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1835394
Project Number: 141.05051.010
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-04
Client ID: MW-4
Sample Location: JAFFREY, NH
Date Collected: 09/06/18 16:00
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	09/15/18 11:45	09/17/18 17:03	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	ND		mg/l	0.005	0.002	1	09/15/18 11:45	09/17/18 23:19	EPA 3005A	1,6010D	LC
Beryllium, Dissolved	ND		mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 23:19	EPA 3005A	1,6010D	LC
Cadmium, Dissolved	0.002	J	mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 23:19	EPA 3005A	1,6010D	LC
Chromium, Dissolved	ND		mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 23:19	EPA 3005A	1,6010D	LC
Copper, Dissolved	ND		mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 23:19	EPA 3005A	1,6010D	LC
Lead, Dissolved	ND		mg/l	0.010	0.003	1	09/15/18 11:45	09/17/18 23:19	EPA 3005A	1,6010D	LC
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	09/12/18 14:14	09/13/18 00:14	EPA 7470A	1,7470A	EA
Nickel, Dissolved	ND		mg/l	0.025	0.002	1	09/15/18 11:45	09/17/18 23:19	EPA 3005A	1,6010D	LC
Selenium, Dissolved	ND		mg/l	0.010	0.004	1	09/15/18 11:45	09/17/18 23:19	EPA 3005A	1,6010D	LC
Silver, Dissolved	ND		mg/l	0.007	0.003	1	09/15/18 11:45	09/17/18 23:19	EPA 3005A	1,6010D	LC
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	09/15/18 11:45	09/17/18 17:03	EPA 3005A	1,6020B	AM
Zinc, Dissolved	0.002	J	mg/l	0.050	0.002	1	09/15/18 11:45	09/17/18 23:19	EPA 3005A	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1835394
Project Number: 141.05051.010
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-06
Client ID: MW-6
Sample Location: JAFFREY, NH
Date Collected: 09/06/18 15:07
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	09/15/18 11:45	09/17/18 17:07	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.005		mg/l	0.005	0.002	1	09/15/18 11:45	09/17/18 23:24	EPA 3005A	1,6010D	LC
Beryllium, Dissolved	ND		mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 23:24	EPA 3005A	1,6010D	LC
Cadmium, Dissolved	ND		mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 23:24	EPA 3005A	1,6010D	LC
Chromium, Dissolved	ND		mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 23:24	EPA 3005A	1,6010D	LC
Copper, Dissolved	ND		mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 23:24	EPA 3005A	1,6010D	LC
Lead, Dissolved	ND		mg/l	0.010	0.003	1	09/15/18 11:45	09/17/18 23:24	EPA 3005A	1,6010D	LC
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	09/12/18 14:14	09/13/18 00:19	EPA 7470A	1,7470A	EA
Nickel, Dissolved	0.003	J	mg/l	0.025	0.002	1	09/15/18 11:45	09/17/18 23:24	EPA 3005A	1,6010D	LC
Selenium, Dissolved	ND		mg/l	0.010	0.004	1	09/15/18 11:45	09/17/18 23:24	EPA 3005A	1,6010D	LC
Silver, Dissolved	ND		mg/l	0.007	0.003	1	09/15/18 11:45	09/17/18 23:24	EPA 3005A	1,6010D	LC
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	09/15/18 11:45	09/17/18 17:07	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.050	0.002	1	09/15/18 11:45	09/17/18 23:24	EPA 3005A	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1835394
Project Number: 141.05051.010
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-07
Client ID: MW-7
Sample Location: JAFFREY, NH
Date Collected: 09/06/18 12:02
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	09/15/18 11:45	09/17/18 17:12	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	ND		mg/l	0.005	0.002	1	09/15/18 11:45	09/17/18 23:29	EPA 3005A	1,6010D	LC
Beryllium, Dissolved	ND		mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 23:29	EPA 3005A	1,6010D	LC
Cadmium, Dissolved	0.001	J	mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 23:29	EPA 3005A	1,6010D	LC
Chromium, Dissolved	ND		mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 23:29	EPA 3005A	1,6010D	LC
Copper, Dissolved	ND		mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 23:29	EPA 3005A	1,6010D	LC
Lead, Dissolved	ND		mg/l	0.010	0.003	1	09/15/18 11:45	09/17/18 23:29	EPA 3005A	1,6010D	LC
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	09/12/18 14:14	09/13/18 00:21	EPA 7470A	1,7470A	EA
Nickel, Dissolved	0.011	J	mg/l	0.025	0.002	1	09/15/18 11:45	09/17/18 23:29	EPA 3005A	1,6010D	LC
Selenium, Dissolved	ND		mg/l	0.010	0.004	1	09/15/18 11:45	09/17/18 23:29	EPA 3005A	1,6010D	LC
Silver, Dissolved	ND		mg/l	0.007	0.003	1	09/15/18 11:45	09/17/18 23:29	EPA 3005A	1,6010D	LC
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	09/15/18 11:45	09/17/18 17:12	EPA 3005A	1,6020B	AM
Zinc, Dissolved	0.023	J	mg/l	0.050	0.002	1	09/15/18 11:45	09/17/18 23:29	EPA 3005A	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1835394
Project Number: 141.05051.010
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-08
Client ID: MW-8
Sample Location: JAFFREY, NH
Date Collected: 09/06/18 12:32
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	09/15/18 11:45	09/17/18 18:07	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.010		mg/l	0.005	0.002	1	09/15/18 11:45	09/17/18 23:34	EPA 3005A	1,6010D	LC
Beryllium, Dissolved	ND		mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 23:34	EPA 3005A	1,6010D	LC
Cadmium, Dissolved	ND		mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 23:34	EPA 3005A	1,6010D	LC
Chromium, Dissolved	0.003	J	mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 23:34	EPA 3005A	1,6010D	LC
Copper, Dissolved	ND		mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 23:34	EPA 3005A	1,6010D	LC
Lead, Dissolved	ND		mg/l	0.010	0.003	1	09/15/18 11:45	09/17/18 23:34	EPA 3005A	1,6010D	LC
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	09/12/18 14:14	09/13/18 00:23	EPA 7470A	1,7470A	EA
Nickel, Dissolved	ND		mg/l	0.025	0.002	1	09/15/18 11:45	09/17/18 23:34	EPA 3005A	1,6010D	LC
Selenium, Dissolved	ND		mg/l	0.010	0.004	1	09/15/18 11:45	09/17/18 23:34	EPA 3005A	1,6010D	LC
Silver, Dissolved	ND		mg/l	0.007	0.003	1	09/15/18 11:45	09/17/18 23:34	EPA 3005A	1,6010D	LC
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	09/15/18 11:45	09/17/18 18:07	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.050	0.002	1	09/15/18 11:45	09/17/18 23:34	EPA 3005A	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1835394
Project Number: 141.05051.010
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-09
Client ID: GW-DUP
Sample Location: JAFFREY, NH
Date Collected: 09/06/18 12:32
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	09/15/18 11:45	09/17/18 18:11	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.0090		mg/l	0.005	0.002	1	09/15/18 11:45	09/17/18 23:39	EPA 3005A	1,6010D	LC
Beryllium, Dissolved	ND		mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 23:39	EPA 3005A	1,6010D	LC
Cadmium, Dissolved	ND		mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 23:39	EPA 3005A	1,6010D	LC
Chromium, Dissolved	0.002	J	mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 23:39	EPA 3005A	1,6010D	LC
Copper, Dissolved	ND		mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 23:39	EPA 3005A	1,6010D	LC
Lead, Dissolved	ND		mg/l	0.010	0.003	1	09/15/18 11:45	09/17/18 23:39	EPA 3005A	1,6010D	LC
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	09/12/18 14:14	09/13/18 00:25	EPA 7470A	1,7470A	EA
Nickel, Dissolved	ND		mg/l	0.025	0.002	1	09/15/18 11:45	09/17/18 23:39	EPA 3005A	1,6010D	LC
Selenium, Dissolved	ND		mg/l	0.010	0.004	1	09/15/18 11:45	09/17/18 23:39	EPA 3005A	1,6010D	LC
Silver, Dissolved	ND		mg/l	0.007	0.003	1	09/15/18 11:45	09/17/18 23:39	EPA 3005A	1,6010D	LC
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	09/15/18 11:45	09/17/18 18:11	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.050	0.002	1	09/15/18 11:45	09/17/18 23:39	EPA 3005A	1,6010D	LC

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-04,06-09 Batch: WG1156147-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	09/12/18 14:14	09/13/18 00:01	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-04,06-09 Batch: WG1157266-1										
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	09/15/18 11:45	09/17/18 15:40	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	09/15/18 11:45	09/17/18 15:40	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-04,06-09 Batch: WG1157268-1										
Arsenic, Dissolved	ND		mg/l	0.005	0.002	1	09/15/18 11:45	09/17/18 19:34	1,6010D	LC
Beryllium, Dissolved	ND		mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 19:34	1,6010D	LC
Cadmium, Dissolved	ND		mg/l	0.005	0.001	1	09/15/18 11:45	09/17/18 19:34	1,6010D	LC
Chromium, Dissolved	ND		mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 19:34	1,6010D	LC
Copper, Dissolved	ND		mg/l	0.010	0.002	1	09/15/18 11:45	09/17/18 19:34	1,6010D	LC
Lead, Dissolved	ND		mg/l	0.010	0.003	1	09/15/18 11:45	09/17/18 19:34	1,6010D	LC
Nickel, Dissolved	ND		mg/l	0.025	0.002	1	09/15/18 11:45	09/17/18 19:34	1,6010D	LC
Selenium, Dissolved	ND		mg/l	0.010	0.004	1	09/15/18 11:45	09/17/18 19:34	1,6010D	LC
Silver, Dissolved	ND		mg/l	0.007	0.003	1	09/15/18 11:45	09/17/18 19:34	1,6010D	LC
Zinc, Dissolved	ND		mg/l	0.050	0.002	1	09/15/18 11:45	09/17/18 19:34	1,6010D	LC

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1835394

Report Date: 09/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,06-09 Batch: WG1156147-2								
Mercury, Dissolved	108		-		80-120	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,06-09 Batch: WG1157266-2								
Antimony, Dissolved	94		-		80-120	-		
Thallium, Dissolved	103		-		80-120	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,06-09 Batch: WG1157268-2								
Arsenic, Dissolved	112		-		80-120	-		
Beryllium, Dissolved	93		-		80-120	-		
Cadmium, Dissolved	110		-		80-120	-		
Chromium, Dissolved	104		-		80-120	-		
Copper, Dissolved	99		-		80-120	-		
Lead, Dissolved	102		-		80-120	-		
Nickel, Dissolved	101		-		80-120	-		
Selenium, Dissolved	116		-		80-120	-		
Silver, Dissolved	102		-		80-120	-		
Zinc, Dissolved	109		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1835394
Report Date: 09/20/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,06-09 QC Batch ID: WG1156147-3 QC Sample: L1835394-01 Client ID: MW-1												
Mercury, Dissolved	ND	0.005	0.00501	100		-	-		75-125	-		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,06-09 QC Batch ID: WG1157266-3 QC Sample: L1835394-01 Client ID: MW-1												
Antimony, Dissolved	0.00049J	0.5	0.4722	94		-	-		75-125	-		20
Thallium, Dissolved	ND	0.12	0.1174	98		-	-		75-125	-		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,06-09 QC Batch ID: WG1157268-3 QC Sample: L1835394-01 Client ID: MW-1												
Arsenic, Dissolved	0.004J	0.12	0.141	118		-	-		75-125	-		20
Beryllium, Dissolved	ND	0.05	0.046	92		-	-		75-125	-		20
Cadmium, Dissolved	0.003J	0.051	0.057	112		-	-		75-125	-		20
Chromium, Dissolved	ND	0.2	0.203	102		-	-		75-125	-		20
Copper, Dissolved	ND	0.25	0.252	101		-	-		75-125	-		20
Lead, Dissolved	ND	0.51	0.480	94		-	-		75-125	-		20
Nickel, Dissolved	ND	0.5	0.479	96		-	-		75-125	-		20
Selenium, Dissolved	ND	0.12	0.140	117		-	-		75-125	-		20
Silver, Dissolved	ND	0.05	0.051	103		-	-		75-125	-		20
Zinc, Dissolved	ND	0.5	0.527	105		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1835394
Report Date: 09/20/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,06-09 QC Batch ID: WG1156147-4 QC Sample: L1835394-01 Client ID: MW-1						
Mercury, Dissolved	ND	ND	mg/l	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,06-09 QC Batch ID: WG1157266-4 QC Sample: L1835394-01 Client ID: MW-1						
Antimony, Dissolved	0.00049J	0.00097J	mg/l	NC		20
Thallium, Dissolved	ND	0.00018J	mg/l	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,06-09 QC Batch ID: WG1157268-4 QC Sample: L1835394-01 Client ID: MW-1						
Arsenic, Dissolved	0.004J	0.002J	mg/l	NC		20
Beryllium, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	0.003J	0.003J	mg/l	NC		20
Chromium, Dissolved	ND	ND	mg/l	NC		20
Copper, Dissolved	ND	ND	mg/l	NC		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Nickel, Dissolved	ND	ND	mg/l	NC		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Zinc, Dissolved	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-01
Client ID: MW-1
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 17:01
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.015		mg/l	0.005	0.001	1	09/10/18 15:20	09/11/18 08:22	1,9010C/9012B	LH
Sulfate	38.		mg/l	20	2.7	2	09/11/18 16:46	09/11/18 16:46	121,4500SO4-E	BR

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-02
Client ID: MW-2
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 16:53
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.512		mg/l	0.010	0.003	2	09/10/18 15:20	09/11/18 08:48	1,9010C/9012B	LH
Sulfate	37.		mg/l	20	2.7	2	09/11/18 16:46	09/11/18 16:46	121,4500SO4-E	BR

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-03
Client ID: MW-3
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 10:38
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.016		mg/l	0.005	0.001	1	09/10/18 15:20	09/11/18 08:46	1,9010C/9012B	LH
Sulfate	22.		mg/l	10	1.4	1	09/11/18 16:46	09/11/18 16:46	121,4500SO4-E	BR

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-06
Client ID: MW-6
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 15:07
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/10/18 15:20	09/11/18 08:27	1,9010C/9012B	LH
Sulfate	7.9	J	mg/l	10	1.4	1	09/11/18 16:46	09/11/18 16:46	121,4500SO4-E	BR

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-08
Client ID: MW-8
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 12:32
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/10/18 15:20	09/11/18 08:28	1,9010C/9012B	LH
Sulfate	ND		mg/l	10	1.4	1	09/11/18 16:46	09/11/18 16:46	121,4500SO4-E	BR

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1835394
Report Date: 09/20/18

SAMPLE RESULTS

Lab ID: L1835394-09
Client ID: GW-DUP
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 12:32
Date Received: 09/07/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/10/18 15:20	09/11/18 08:29	1,9010C/9012B	LH
Sulfate	ND		mg/l	10	1.4	1	09/11/18 16:46	09/11/18 16:46	121,4500SO4-E	BR

Project Name: WW CROSS PROPERTY **Lab Number:** L1835394

Project Number: 141.05051.010 **Report Date:** 09/20/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03,06,08-09 Batch: WG1155282-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/10/18 15:20	09/11/18 07:56	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01-03,06,08-09 Batch: WG1155555-1										
Sulfate	1.4	J	mg/l	10	1.4	1	09/11/18 16:46	09/11/18 16:46	121,4500SO4-E	BR

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1835394

Report Date: 09/20/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03,06,08-09 Batch: WG1155282-2 WG1155282-3								
Cyanide, Total	97		95		85-115	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,06,08-09 Batch: WG1155555-2								
Sulfate	90		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1835394
Report Date: 09/20/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03,06,08-09 QC Batch ID: WG1155282-4 WG1155282-5 QC Sample: L1835394-01 Client ID: MW-1												
Cyanide, Total	0.015	0.2	0.254	119		0.206	95		80-120	**21**	Q	20

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1835394
Report Date: 09/20/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1835394-01A	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)
L1835394-01B	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)
L1835394-01C	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)
L1835394-01D	Plastic 120ml unpreserved	C	7	7	3.9	Y	Absent		SO4-4500(28)
L1835394-01E	Plastic 250ml HNO3 preserved	C	<2	<2	3.9	Y	Absent		PB-SI(180),AG-SI(180),AS-SI(180),CU-SI(180),NI-SI(180),BE-SI(180),CD-SI(180),TL-6020S(180),CR-SI(180),SB-6020S(180),HG-S(28),SE-SI(180),ZN-SI(180)
L1835394-01F	Plastic 250ml NaOH preserved	C	>12	>12	3.9	Y	Absent		TCN-9010(14)
L1835394-01G	Amber 500ml unpreserved	C	7	7	3.9	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L1835394-01H	Amber 500ml unpreserved	C	7	7	3.9	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L1835394-01I	Amber 1000ml unpreserved	C	7	7	3.9	Y	Absent		PAHTCL-SIM(7)
L1835394-01J	Amber 1000ml unpreserved	C	7	7	3.9	Y	Absent		PAHTCL-SIM(7)
L1835394-02A	Vial HCl preserved	B	NA		3.6	Y	Absent		8260-NH(14)
L1835394-02B	Vial HCl preserved	B	NA		3.6	Y	Absent		8260-NH(14)
L1835394-02C	Vial HCl preserved	B	NA		3.6	Y	Absent		8260-NH(14)
L1835394-02D	Plastic 120ml unpreserved	C	7	7	3.9	Y	Absent		SO4-4500(28)
L1835394-02E	Plastic 250ml HNO3 preserved	C	<2	<2	3.9	Y	Absent		PB-SI(180),AG-SI(180),AS-SI(180),CU-SI(180),NI-SI(180),BE-SI(180),CD-SI(180),TL-6020S(180),CR-SI(180),SB-6020S(180),HG-S(28),SE-SI(180),ZN-SI(180)
L1835394-02F	Plastic 250ml NaOH preserved	C	>12	>12	3.9	Y	Absent		TCN-9010(14)
L1835394-02G	Amber 500ml unpreserved	C	7	7	3.9	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L1835394-02Q	Plastic 250ml Trizma preserved	A	NA		4.0	Y	Absent		A2-NH-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1835394
Report Date: 09/20/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1835394-02R	Plastic 250ml Trizma preserved	A	NA		4.0	Y	Absent		A2-NH-537-ISOTOPE(14)
L1835394-03A	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)
L1835394-03B	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)
L1835394-03C	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)
L1835394-03D	Plastic 120ml unpreserved	B	7	7	3.6	Y	Absent		SO4-4500(28)
L1835394-03E	Plastic 250ml HNO3 preserved	B	<2	<2	3.6	Y	Absent		PB-SI(180),AG-SI(180),AS-SI(180),CU-SI(180),NI-SI(180),BE-SI(180),CD-SI(180),TL-6020S(180),CR-SI(180),SB-6020S(180),HG-S(28),SE-SI(180),ZN-SI(180)
L1835394-03F	Plastic 250ml NaOH preserved	B	>12	>12	3.6	Y	Absent		TCN-9010(14)
L1835394-03G	Amber 500ml unpreserved	B	7	7	3.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L1835394-03H	Amber 500ml unpreserved	B	7	7	3.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L1835394-03I	Amber 1000ml unpreserved	B	7	7	3.6	Y	Absent		PAHTCL-SIM(7)
L1835394-03J	Amber 1000ml unpreserved	B	7	7	3.6	Y	Absent		PAHTCL-SIM(7)
L1835394-03Q	Plastic 250ml Trizma preserved	A	NA		4.0	Y	Absent		A2-NH-537-ISOTOPE(14)
L1835394-03R	Plastic 250ml Trizma preserved	A	NA		4.0	Y	Absent		A2-NH-537-ISOTOPE(14)
L1835394-03S	Plastic 250ml Trizma preserved	A	NA		4.0	Y	Absent		A2-NH-537-ISOTOPE(14)
L1835394-04A	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)
L1835394-04B	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)
L1835394-04C	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)
L1835394-04D	Plastic 250ml HNO3 preserved	C	<2	<2	3.9	Y	Absent		PB-SI(180),AG-SI(180),AS-SI(180),CU-SI(180),NI-SI(180),BE-SI(180),CD-SI(180),TL-6020S(180),CR-SI(180),SB-6020S(180),HG-S(28),SE-SI(180),ZN-SI(180)
L1835394-04E	Amber 100ml unpreserved	C	7	7	3.9	Y	Absent		-
L1835394-05A	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)
L1835394-05B	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)
L1835394-05C	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)
L1835394-05D	Amber 1000ml unpreserved	C	7	7	3.9	Y	Absent		PAHTCL-SIM(7)
L1835394-05E	Amber 1000ml unpreserved	C	7	7	3.9	Y	Absent		PAHTCL-SIM(7)
L1835394-06A	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)

*Values in parentheses indicate holding time in days

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1835394
Report Date: 09/20/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1835394-06B	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)
L1835394-06C	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)
L1835394-06D	Plastic 120ml unpreserved	C	7	7	3.9	Y	Absent		SO4-4500(28)
L1835394-06E	Plastic 250ml HNO3 preserved	C	<2	<2	3.9	Y	Absent		PB-SI(180),AG-SI(180),AS-SI(180),CU-SI(180),NI-SI(180),BE-SI(180),CD-SI(180),TL-6020S(180),CR-SI(180),SB-6020S(180),HG-S(28),SE-SI(180),ZN-SI(180)
L1835394-06F	Plastic 250ml NaOH preserved	C	>12	>12	3.9	Y	Absent		TCN-9010(14)
L1835394-06G	Amber 500ml unpreserved	C	7	7	3.9	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L1835394-06H	Amber 500ml unpreserved	C	7	7	3.9	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L1835394-06I	Amber 1000ml unpreserved	C	7	7	3.9	Y	Absent		PAHTCL-SIM(7)
L1835394-06J	Amber 1000ml unpreserved	C	7	7	3.9	Y	Absent		PAHTCL-SIM(7)
L1835394-07A	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)
L1835394-07B	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)
L1835394-07C	Vial HCl preserved	C	NA		3.9	Y	Absent		8260-NH(14)
L1835394-07D	Plastic 250ml HNO3 preserved	C	<2	<2	3.9	Y	Absent		PB-SI(180),AG-SI(180),AS-SI(180),CU-SI(180),NI-SI(180),BE-SI(180),CD-SI(180),TL-6020S(180),CR-SI(180),SB-6020S(180),HG-S(28),SE-SI(180),ZN-SI(180)
L1835394-07E	Amber 1000ml unpreserved	C	7	7	3.9	Y	Absent		PAHTCL-SIM(7)
L1835394-07F	Amber 1000ml unpreserved	C	7	7	3.9	Y	Absent		PAHTCL-SIM(7)
L1835394-08A	Vial HCl preserved	B	NA		3.6	Y	Absent		8260-NH(14)
L1835394-08B	Vial HCl preserved	B	NA		3.6	Y	Absent		8260-NH(14)
L1835394-08C	Vial HCl preserved	B	NA		3.6	Y	Absent		8260-NH(14)
L1835394-08D	Plastic 120ml unpreserved	B	7	7	3.6	Y	Absent		SO4-4500(28)
L1835394-08E	Plastic 250ml HNO3 preserved	B	<2	<2	3.6	Y	Absent		PB-SI(180),AG-SI(180),AS-SI(180),CU-SI(180),NI-SI(180),BE-SI(180),CD-SI(180),TL-6020S(180),CR-SI(180),SB-6020S(180),HG-S(28),SE-SI(180),ZN-SI(180)
L1835394-08F	Plastic 250ml NaOH preserved	B	>12	>12	3.6	Y	Absent		TCN-9010(14)
L1835394-08G	Amber 500ml unpreserved	B	7	7	3.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L1835394-08H	Amber 500ml unpreserved	B	7	7	3.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L1835394-08I	Amber 1000ml unpreserved	B	7	7	3.6	Y	Absent		PAHTCL-SIM(7)

*Values in parentheses indicate holding time in days

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1835394
Report Date: 09/20/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1835394-08J	Amber 1000ml unpreserved	B	7	7	3.6	Y	Absent		PAHTCL-SIM(7)
L1835394-09A	Vial HCl preserved	B	NA		3.6	Y	Absent		8260-NH(14)
L1835394-09B	Vial HCl preserved	B	NA		3.6	Y	Absent		8260-NH(14)
L1835394-09C	Vial HCl preserved	B	NA		3.6	Y	Absent		8260-NH(14)
L1835394-09D	Plastic 120ml unpreserved	B	7	7	3.6	Y	Absent		SO4-4500(28)
L1835394-09E	Plastic 250ml HNO3 preserved	B	<2	<2	3.6	Y	Absent		PB-SI(180),AG-SI(180),AS-SI(180),CU-SI(180),NI-SI(180),BE-SI(180),CD-SI(180),TL-6020S(180),CR-SI(180),SB-6020S(180),HG-S(28),SE-SI(180),ZN-SI(180)
L1835394-09F	Plastic 250ml NaOH preserved	B	>12	>12	3.6	Y	Absent		TCN-9010(14)
L1835394-09G	Amber 500ml unpreserved	B	7	7	3.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L1835394-09H	Amber 500ml unpreserved	B	7	7	3.6	Y	Absent		A2-14-DIOXANESIM-PPB(7)
L1835394-09I	Amber 1000ml unpreserved	B	7	7	3.6	Y	Absent		PAHTCL-SIM(7)
L1835394-09J	Amber 1000ml unpreserved	B	7	7	3.6	Y	Absent		PAHTCL-SIM(7)
L1835394-10A	Plastic 250ml Trizma preserved	A	NA		4.0	Y	Absent		A2-NH-537-ISOTOPE(14)
L1835394-10B	Plastic 250ml Trizma preserved	A	NA		4.0	Y	Absent		A2-NH-537-ISOTOPE(14)
L1835394-10C	Plastic 250ml Trizma preserved	A	NA		4.0	Y	Absent		A2-NH-537-ISOTOPE(14)
L1835394-11A	Plastic 250ml Trizma preserved	A	NA		4.0	Y	Absent		A2-NH-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1835394
Project Number:	141.05051.010	**Report Date:**	09/20/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1835394
Project Number:	141.05051.010	**Report Date:**	09/20/18

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1835394
Project Number:	141.05051.010	**Report Date:**	09/20/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

122 Determination of Selected Perfluorintated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537, EPA/600/R-08/092. Version 1.1, September 2009.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA ANALYTICAL

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab: 9/7/18

ALPHA Job #: L1835394

Project Information

Project Name: WW Cross Property
Project Location: Jaffrey, NH
Project #: 141.05051.010
Project Manager: Steven Rizkerich
ALPHA Quote #:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #: 11152

Client Information

Client: Ransom Consulting Inc.
Address: 112 Corporate Drive, Portsmouth, NH 03801
Phone: 603-436-1490
Email: srizkerich@ransomenv.com, bonnie.best@ransomenv.com

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods
☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES+USEPA Brownfields Criteria Per SSQAPP

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Additional Project Information:
PAH + Metals Samples are field filtered
Preservative "O" = Trizma

ANALYSIS: VOC: ☒ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☒ PAH 8270; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☒ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☐ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint; 1,4-dioxane 8260 SIM; Cyanide Total 9010/9012; Sulfate SM4500; PFAS Modified 537 Isotope Dilution

SAMPLE INFO: Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC 8260	SVOC PAH 8270	Metals PP13	1,4-dioxane	Cyanide	Sulfate	PFAS	Sample Comments
35394-01	MW-1	9-6-18	17:01	GW	DAP/BAB	✓	✓	✓	✓	✓	✓	~~✓~~ BAB	
-02	MW-2	↓	16:53	↓	↓	✓		✓	✓	✓	✓	✓	
-03	MW-3	↓	10:38	↓	↓	✓	✓	✓	✓	✓	✓	✓	
-04	MW-4	↓	16:00	↓	↓	✓		✓					
-05	MW-5	↓	13:11	↓	↓	✓	✓						
-06	MW-6	↓	15:07	↓	↓	✓	✓	✓	✓	✓	✓		
-07	MW-7	↓	12:02	↓	↓	✓	✓	✓					
-08	MW-8	↓	12:32	↓	↓	✓	✓	✓	✓	✓	✓		
	~~Trip Blank~~												
~~BAB~~	~~Field Blank~~	~~9-6-18~~			~~BAB~~								
	Container Type					V	A	P	A	P	P	P	
	Preservative					B	A	Z	A	E	A	O	

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	9-7-18 / 11:21	[signature] AAL	9/7/18 11:21
[signature] AAL	9/7/18 1135	TL Co AAL 9/7/18	1800
TL Co 9/7/18		[signature] 9/7/18	

FORM NO: 01-01 (rev. 12-Mar-2012)

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 9/7/18

ALPHA Job #: L1835394

ALPHA ANALYTICAL
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Client Information

Client: Ransom Consulting, Inc.
Address: 112 Corporate Drive, Portsmouth, NH 03801
Phone: 603-436-1490
Email: srizkerich@ransomenv.com, bonnie.best@ransomenv.com

Project Information

Project Name: WW Cross Property
Project Location: Jaffrey, NH
Project #: 141.05091.010
Project Manager: Steven Rizkerich
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #: 11152

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods
☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES/USEPA Brownfields Criteria Per SSQAPP

Additional Project Information:

PAH + Metals Samples are field filtered
Preservative "O" = Trizma

Analysis

VOC: ☒ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☒ PAH 8270; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☒ PP13 Diss; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☐ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint; 1,4-Dioxane 8260-SIM; Total Cyanide 9010; Sulfide SM 4500-S; PFAS: Mod. 537 (isotope dilution)

SAMPLE INFO — Filtration: ☐ Field ☐ Lab to do; Preservation: ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC 8260	PAH 8270	Metals PP13 Diss	1,4-Dioxane 8260-SIM	Total Cyanide 9010	Sulfide SM 4500	PFAS Mod. 537	Sample Comments	Total # Bottles
35394-09	GW-DUP	9-6-18	12:32	GW	DAF	✓	✓	✓	✓	✓	✓			
-10	PFAS-DUP	9-6-18	10:38	GW	BAB							✓		
-11	Field Blank	9-6-18	17:35		BAB							✓		
-12	Trip Blank					✓								

	VOC 8260	PAH 8270	Metals PP13 Diss	1,4-Dioxane	Total Cyanide	Sulfide	PFAS
Container Type	V	A	P	A	P	P	P
Preservative	B	A	C	A	E	A	O

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	9-7-18 / 11:21	[signature] AAL	9/7/18 11:21
[signature] AAL	9/7/18	Tri Co AAL 9/7/18	1 pm
TK Co 9/7/18	1935	[signature]	9/7/18 1935

ANALYTICAL REPORT

Lab Number:	L1833896
Client:	Ransom Consulting, Inc. 112 Corporate Drive Pease International Tradeport Portsmouth, NH 03801
ATTN:	Steve Rickerich
Phone:	(603) 436-1490
Project Name:	WW CROSS PROPERTY
Project Number:	141.05051.010
Report Date:	09/05/18

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1833896
Report Date: 09/05/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1833896-01	B2-S3	SOIL	JAFFREY, NH	08/17/18 10:35	08/28/18
L1833896-02	B3-S2	SOIL	JAFFREY, NH	08/16/18 09:45	08/28/18
L1833896-03	13PPM-DUP	SOIL	JAFFREY, NH	08/17/18 10:35	08/28/18
L1833896-04	CRHEX-DUP	SOIL	JAFFREY, NH	08/17/18 10:35	08/28/18

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1833896
Project Number:	141.05051.010	**Report Date:**	09/05/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1833896
Project Number:	141.05051.010	**Report Date:**	09/05/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Amita Naik

Title: Technical Director/Representative Date: 09/05/18

METALS

Project Name: WW CROSS PROPERTY
Lab Number: L1833896
Project Number: 141.05051.010
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1833896-01
Client ID: B2-S3
Sample Location: JAFFREY, NH
Date Collected: 08/17/18 10:35
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	0.668	J	mg/kg	2.17	0.165	1	09/05/18 08:00	09/05/18 11:13	EPA 3050B	1,6010D	LC
Arsenic, Total	7.20		mg/kg	0.434	0.090	1	09/05/18 08:00	09/05/18 11:13	EPA 3050B	1,6010D	LC
Beryllium, Total	0.330		mg/kg	0.217	0.014	1	09/05/18 08:00	09/05/18 11:13	EPA 3050B	1,6010D	LC
Cadmium, Total	253		mg/kg	0.434	0.043	1	09/05/18 08:00	09/05/18 11:13	EPA 3050B	1,6010D	LC
Chromium, Total	8.40		mg/kg	0.434	0.042	1	09/05/18 08:00	09/05/18 11:13	EPA 3050B	1,6010D	LC
Copper, Total	128		mg/kg	0.434	0.112	1	09/05/18 08:00	09/05/18 11:13	EPA 3050B	1,6010D	LC
Lead, Total	2.90		mg/kg	2.17	0.116	1	09/05/18 08:00	09/05/18 11:13	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.070	0.015	1	09/05/18 05:30	09/05/18 11:41	EPA 7471B	1,7471B	MG
Nickel, Total	5.01		mg/kg	1.08	0.105	1	09/05/18 08:00	09/05/18 11:13	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	0.868	0.112	1	09/05/18 08:00	09/05/18 11:13	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.434	0.123	1	09/05/18 08:00	09/05/18 11:13	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	0.868	0.137	1	09/05/18 08:00	09/05/18 11:13	EPA 3050B	1,6010D	LC
Zinc, Total	302		mg/kg	2.17	0.127	1	09/05/18 08:00	09/05/18 11:13	EPA 3050B	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1833896
Project Number: 141.05051.010
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1833896-02
Client ID: B3-S2
Sample Location: JAFFREY, NH
Date Collected: 08/16/18 09:45
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	4.10		mg/kg	2.41	0.183	1	09/05/18 08:00	09/05/18 11:17	EPA 3050B	1,6010D	LC
Arsenic, Total	9.73		mg/kg	0.482	0.100	1	09/05/18 08:00	09/05/18 11:17	EPA 3050B	1,6010D	LC
Beryllium, Total	0.169	J	mg/kg	0.241	0.016	1	09/05/18 08:00	09/05/18 11:17	EPA 3050B	1,6010D	LC
Cadmium, Total	17.2		mg/kg	0.482	0.047	1	09/05/18 08:00	09/05/18 11:17	EPA 3050B	1,6010D	LC
Chromium, Total	23.7		mg/kg	0.482	0.046	1	09/05/18 08:00	09/05/18 11:17	EPA 3050B	1,6010D	LC
Copper, Total	498		mg/kg	0.482	0.124	1	09/05/18 08:00	09/05/18 11:17	EPA 3050B	1,6010D	LC
Lead, Total	98.9		mg/kg	2.41	0.129	1	09/05/18 08:00	09/05/18 11:17	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.082	0.017	1	09/05/18 05:30	09/05/18 11:43	EPA 7471B	1,7471B	MG
Nickel, Total	23.0		mg/kg	1.21	0.117	1	09/05/18 08:00	09/05/18 11:17	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	0.965	0.124	1	09/05/18 08:00	09/05/18 11:17	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.482	0.136	1	09/05/18 08:00	09/05/18 11:17	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	0.965	0.152	1	09/05/18 08:00	09/05/18 11:17	EPA 3050B	1,6010D	LC
Zinc, Total	456		mg/kg	2.41	0.141	1	09/05/18 08:00	09/05/18 11:17	EPA 3050B	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1833896
Project Number: 141.05051.010
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1833896-03
Client ID: 13PPM-DUP
Sample Location: JAFFREY, NH
Date Collected: 08/17/18 10:35
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	0.687	J	mg/kg	2.38	0.181	1	09/05/18 08:00	09/05/18 11:21	EPA 3050B	1,6010D	LC
Arsenic, Total	7.52		mg/kg	0.477	0.099	1	09/05/18 08:00	09/05/18 11:21	EPA 3050B	1,6010D	LC
Beryllium, Total	0.315		mg/kg	0.238	0.016	1	09/05/18 08:00	09/05/18 11:21	EPA 3050B	1,6010D	LC
Cadmium, Total	159		mg/kg	0.477	0.047	1	09/05/18 08:00	09/05/18 11:21	EPA 3050B	1,6010D	LC
Chromium, Total	7.93		mg/kg	0.477	0.046	1	09/05/18 08:00	09/05/18 11:21	EPA 3050B	1,6010D	LC
Copper, Total	173		mg/kg	0.477	0.123	1	09/05/18 08:00	09/05/18 11:21	EPA 3050B	1,6010D	LC
Lead, Total	3.00		mg/kg	2.38	0.128	1	09/05/18 08:00	09/05/18 11:21	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.079	0.017	1	09/05/18 05:30	09/05/18 11:48	EPA 7471B	1,7471B	MG
Nickel, Total	4.94		mg/kg	1.19	0.115	1	09/05/18 08:00	09/05/18 11:21	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	0.954	0.123	1	09/05/18 08:00	09/05/18 11:21	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.477	0.135	1	09/05/18 08:00	09/05/18 11:21	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	0.954	0.150	1	09/05/18 08:00	09/05/18 11:21	EPA 3050B	1,6010D	LC
Zinc, Total	334		mg/kg	2.38	0.140	1	09/05/18 08:00	09/05/18 11:21	EPA 3050B	1,6010D	LC

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1833896
Report Date: 09/05/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1153586-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	09/05/18 05:30	09/05/18 11:28	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1153625-1										
Antimony, Total	ND		mg/kg	2.00	0.152	1	09/05/18 08:00	09/05/18 10:10	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	09/05/18 08:00	09/05/18 10:10	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	09/05/18 08:00	09/05/18 10:10	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	09/05/18 08:00	09/05/18 10:10	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	09/05/18 08:00	09/05/18 10:10	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	09/05/18 08:00	09/05/18 10:10	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	09/05/18 08:00	09/05/18 10:10	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	09/05/18 08:00	09/05/18 10:10	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	09/05/18 08:00	09/05/18 10:10	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	09/05/18 08:00	09/05/18 10:10	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	09/05/18 08:00	09/05/18 10:10	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	09/05/18 08:00	09/05/18 10:10	1,6010D	LC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1833896

Report Date: 09/05/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1153586-2 SRM Lot Number: D102-540								
Mercury, Total	82		-		65-134	-		
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1153625-2 SRM Lot Number: D102-540								
Antimony, Total	179		-		1-199	-		
Arsenic, Total	103		-		83-117	-		
Beryllium, Total	99		-		83-116	-		
Cadmium, Total	107		-		83-118	-		
Chromium, Total	96		-		83-117	-		
Copper, Total	98		-		84-116	-		
Lead, Total	100		-		82-118	-		
Nickel, Total	101		-		83-117	-		
Selenium, Total	107		-		79-121	-		
Silver, Total	98		-		80-120	-		
Thallium, Total	105		-		81-119	-		
Zinc, Total	98		-		81-118	-		

INORGANICS
&
MISCELLANEOUS

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1833896
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1833896-01
Client ID: B2-S3
Sample Location: JAFFREY, NH

Date Collected: 08/17/18 10:35
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	08/29/18 11:50	121,2540G	RI

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1833896
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1833896-02
Client ID: B3-S2
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 09:45
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.0		%	0.100	NA	1	-	08/29/18 11:50	121,2540G	RI

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1833896
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1833896-03
Client ID: 13PPM-DUP
Sample Location: JAFFREY, NH

Date Collected: 08/17/18 10:35
Date Received: 08/28/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.0		%	0.100	NA	1	-	08/29/18 11:50	121,2540G	RI

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1833896
Report Date: 09/05/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833896-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1833896-01B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HOLD-WETCHEM(),TS(7)
L1833896-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1833896-02B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-WETCHEM(),TS(7)
L1833896-03A	Glass 60ml unpreserved split	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1833896-03B	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		TS(7)
L1833896-04A	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HOLD-WETCHEM()

*Values in parentheses indicate holding time in days

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1833896
Project Number:	141.05051.010	**Report Date:**	09/05/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1833896
Project Number:	141.05051.010	**Report Date:**	09/05/18

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1833896
Project Number:	141.05051.010	**Report Date:**	09/05/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 8/28/18

ALPHA Job #: L1833896

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Ransom Consulting Inc.
Address: 112 Corporate Drive Portsmouth NH 03801
Phone: 603-436-1490
Fax: 603-436-6037
Email: srizkerich@ransomenv.com bonnie.best@ransomenv.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: WW Cross Property
Project Location: Jaffrey, NH
Project #: 141.05054.010
Project Manager: Steven Rizkerich
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 11157

Regulatory Requirements/Report Limits

State /Fed Program / Criteria: NHDES + USEPA Brownfields - Per SSQAPP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

* = HOLD Analysis Pending PPMetals Results

ANALYSIS: Priority Pollutant Metals 13 | Hexavalent Chromium

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Priority Pollutant Metals 13	Hexavalent Chromium	Sample Specific Comments	TOTAL # BOTTLES
33896-01	B2-S3	8-17-18	10:35	S	BAB	✓	*		
-02	B3-S2	8-16-18	9:45	S	BAB	✓	*		
-03	13PPM-DUP	8-17-18	10:35	S	BAB	✓			
-04	CrHex-DUP	8-17-18	10:35	S	BAB		*		

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	A	A
Preservative	A	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8-28-18/12:50	[signature] AAL	8/28/18 12:50
[signature] AAL	8/28/18	Rob Maesto AAL	8/28/18 18:40
Rob Maesto	8/28/18 2010	[signature]	8/28/18 2010

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

ANALYTICAL REPORT

Lab Number:	L1832546
Client:	Ransom Consulting, Inc. 112 Corporate Drive Pease International Tradeport Portsmouth, NH 03801
ATTN:	Steve Rickerich
Phone:	(603) 436-1490
Project Name:	WW CROSS PROPERTY
Project Number:	141.05051.010
Report Date:	08/30/18

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1832546-01	B2-S4	SOIL	JAFFREY, NH	08/17/18 10:45	08/17/18
L1832546-02	B3-S3	SOIL	JAFFREY, NH	08/16/18 09:50	08/17/18
L1832546-03	B5-S3	SOIL	JAFFREY, NH	08/16/18 12:00	08/17/18
L1832546-04	B6-S1	SOIL	JAFFREY, NH	08/16/18 14:00	08/17/18
L1832546-05	B12-S2	SOIL	JAFFREY, NH	08/16/18 14:45	08/17/18
L1832546-06	B14-S2	SOIL	JAFFREY, NH	08/16/18 15:30	08/17/18
L1832546-07	B15-S4	SOIL	JAFFREY, NH	08/16/18 09:20	08/17/18
L1832546-08	B22-S2	SOIL	JAFFREY, NH	08/16/18 11:30	08/17/18
L1832546-09	B26-S3	SOIL	JAFFREY, NH	08/16/18 07:50	08/17/18
L1832546-10	VOC-DUP	SOIL	JAFFREY, NH	08/16/18 07:50	08/17/18
L1832546-11	PAH+TPH-DUP	SOIL	JAFFREY, NH	08/16/18 07:50	08/17/18
L1832546-12	PAH+TPH-DUP2	SOIL	JAFFREY, NH	08/16/18 12:00	08/17/18
L1832546-13	VOC-DUP2	SOIL	JAFFREY, NH	08/17/18 10:45	08/17/18
L1832546-14	PPMETALS-DUP	SOIL	JAFFREY, NH	08/17/18 10:45	08/17/18
L1832546-15	HEXCR-DUP	SOIL	JAFFREY, NH	08/17/18 10:45	08/17/18
L1832546-16	CS-2	CONCRETE	JAFFREY, NH	08/17/18 10:30	08/17/18
L1832546-17	CS-8	CONCRETE	JAFFREY, NH	08/15/18 08:50	08/17/18
L1832546-18	TRIP BLANK	SOIL	JAFFREY, NH	08/15/18 00:00	08/17/18
L1832546-19	CS-17	CONCRETE	JAFFREY, NH	08/15/18 00:00	08/17/18
L1832546-20	B12-S4	SOIL	JAFFREY, NH	08/17/18 15:00	08/17/18

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1832546
Project Number:	141.05051.010	**Report Date:**	08/30/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1832546
Project Number:	141.05051.010	**Report Date:**	08/30/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L1832546-02: The surrogate recovery for 1,2-dichloroethane-d4 (131%) is outside the acceptance criteria; however, since the sample was non-detect for all target analytes associated with this surrogate, re-analysis was not required.

L1832546-04: The surrogate recovery for 1,2-dichloroethane-d4 (138%) is outside the acceptance criteria; however, since the sample was non-detect for all target analytes associated with this surrogate, re-analysis was not required.

L1832546-08: The surrogate recovery for 1,2-dichloroethane-d4 (137%) is outside the acceptance criteria; however, since the sample was non-detect for all target analytes associated with this surrogate, re-analysis was not required.

L1832546-18: No low vial was submitted for the trip blank. Only high level was analyzed and reported.

L1832546-20: The surrogate recovery for 1,2-dichloroethane-d4 (139%) is outside the acceptance criteria; however, since the sample was non-detect for all target analytes associated with this surrogate, re-analysis was not required.

Cyanide, Total

The WG1149319-2/-3 LCS/LCSD recoveries (69%/75%), associated with L1832546-01,-02, and -05, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 08/30/18

ORGANICS

VOLATILES

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-01 Date Collected: 08/17/18 10:45
Client ID: B2-S4 Date Received: 08/17/18
Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 21:32
Analyst: JC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	2.6	1.2	1
1,1-Dichloroethane	ND		ug/kg	0.52	0.08	1
Chloroform	ND		ug/kg	0.79	0.07	1
Carbon tetrachloride	ND		ug/kg	0.52	0.12	1
1,2-Dichloropropane	ND		ug/kg	0.52	0.07	1
Dibromochloromethane	ND		ug/kg	0.52	0.07	1
1,1,2-Trichloroethane	ND		ug/kg	0.52	0.14	1
Tetrachloroethene	ND		ug/kg	0.26	0.10	1
Chlorobenzene	ND		ug/kg	0.26	0.07	1
Trichlorofluoromethane	ND		ug/kg	2.1	0.36	1
1,2-Dichloroethane	ND		ug/kg	0.52	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	0.26	0.09	1
Bromodichloromethane	ND		ug/kg	0.26	0.06	1
trans-1,3-Dichloropropene	ND		ug/kg	0.52	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	0.26	0.08	1
1,3-Dichloropropene, Total	ND		ug/kg	0.26	0.08	1
1,1-Dichloropropene	ND		ug/kg	0.26	0.08	1
Bromoform	ND		ug/kg	2.1	0.13	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.26	0.09	1
Benzene	ND		ug/kg	0.26	0.09	1
Toluene	ND		ug/kg	0.52	0.28	1
Ethylbenzene	ND		ug/kg	0.52	0.07	1
Chloromethane	ND		ug/kg	2.1	0.49	1
Bromomethane	ND		ug/kg	1.0	0.30	1
Vinyl chloride	ND		ug/kg	0.52	0.18	1
Chloroethane	ND		ug/kg	1.0	0.24	1
1,1-Dichloroethene	ND		ug/kg	0.52	0.12	1
trans-1,2-Dichloroethene	ND		ug/kg	0.79	0.07	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-01 Date Collected: 08/17/18 10:45

Client ID: B2-S4 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.26	0.07	1
1,2-Dichlorobenzene	ND		ug/kg	1.0	0.08	1
1,3-Dichlorobenzene	ND		ug/kg	1.0	0.08	1
1,4-Dichlorobenzene	ND		ug/kg	1.0	0.09	1
Methyl tert butyl ether	ND		ug/kg	1.0	0.10	1
p/m-Xylene	ND		ug/kg	1.0	0.29	1
o-Xylene	ND		ug/kg	0.52	0.15	1
Xylenes, Total	ND		ug/kg	0.52	0.15	1
cis-1,2-Dichloroethene	ND		ug/kg	0.52	0.09	1
1,2-Dichloroethene, Total	ND		ug/kg	0.52	0.07	1
Dibromomethane	ND		ug/kg	1.0	0.12	1
1,2,3-Trichloropropane	ND		ug/kg	1.0	0.07	1
Styrene	ND		ug/kg	0.52	0.10	1
Dichlorodifluoromethane	ND		ug/kg	5.2	0.48	1
Acetone	5.2		ug/kg	5.2	2.5	1
Carbon disulfide	ND		ug/kg	5.2	2.4	1
2-Butanone	ND		ug/kg	5.2	1.2	1
4-Methyl-2-pentanone	ND		ug/kg	5.2	0.67	1
2-Hexanone	ND		ug/kg	5.2	0.62	1
Bromochloromethane	ND		ug/kg	1.0	0.11	1
Tetrahydrofuran	ND		ug/kg	2.1	0.83	1
2,2-Dichloropropane	ND		ug/kg	1.0	0.10	1
1,2-Dibromoethane	ND		ug/kg	0.52	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.26	0.07	1
Bromobenzene	ND		ug/kg	1.0	0.08	1
n-Butylbenzene	ND		ug/kg	0.52	0.09	1
sec-Butylbenzene	ND		ug/kg	0.52	0.08	1
tert-Butylbenzene	ND		ug/kg	1.0	0.06	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.0	0.09	1
o-Chlorotoluene	ND		ug/kg	1.0	0.10	1
p-Chlorotoluene	ND		ug/kg	1.0	0.06	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.6	0.52	1
Hexachlorobutadiene	ND		ug/kg	2.1	0.09	1
Isopropylbenzene	ND		ug/kg	0.52	0.06	1
p-Isopropyltoluene	ND		ug/kg	0.52	0.06	1
Naphthalene	ND		ug/kg	2.1	0.34	1
n-Propylbenzene	ND		ug/kg	0.52	0.09	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-01 Date Collected: 08/17/18 10:45

Client ID: B2-S4 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.0	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.0	0.14	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.0	0.10	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.0	0.18	1
Ethyl ether	ND		ug/kg	1.0	0.18	1
Isopropyl Ether	ND		ug/kg	1.0	0.11	1
Tert-Butyl Alcohol	ND		ug/kg	10	2.7	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.0	0.07	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.0	0.09	1
1,4-Dioxane	ND		ug/kg	52	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	116		70-130

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-02
Client ID: B3-S3
Sample Location: JAFFREY, NH
Date Collected: 08/16/18 09:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 12:37
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	2.8	1.3	1
1,1-Dichloroethane	ND		ug/kg	0.57	0.08	1
Chloroform	ND		ug/kg	0.86	0.08	1
Carbon tetrachloride	ND		ug/kg	0.57	0.13	1
1,2-Dichloropropane	ND		ug/kg	0.57	0.07	1
Dibromochloromethane	ND		ug/kg	0.57	0.08	1
1,1,2-Trichloroethane	ND		ug/kg	0.57	0.15	1
Tetrachloroethene	1.7		ug/kg	0.28	0.11	1
Chlorobenzene	ND		ug/kg	0.28	0.07	1
Trichlorofluoromethane	ND		ug/kg	2.3	0.40	1
1,2-Dichloroethane	ND		ug/kg	0.57	0.15	1
1,1,1-Trichloroethane	ND		ug/kg	0.28	0.10	1
Bromodichloromethane	ND		ug/kg	0.28	0.06	1
trans-1,3-Dichloropropene	ND		ug/kg	0.57	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	0.28	0.09	1
1,3-Dichloropropene, Total	ND		ug/kg	0.28	0.09	1
1,1-Dichloropropene	ND		ug/kg	0.28	0.09	1
Bromoform	ND		ug/kg	2.3	0.14	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.28	0.10	1
Benzene	ND		ug/kg	0.28	0.10	1
Toluene	ND		ug/kg	0.57	0.31	1
Ethylbenzene	ND		ug/kg	0.57	0.08	1
Chloromethane	ND		ug/kg	2.3	0.53	1
Bromomethane	ND		ug/kg	1.1	0.33	1
Vinyl chloride	ND		ug/kg	0.57	0.19	1
Chloroethane	ND		ug/kg	1.1	0.26	1
1,1-Dichloroethene	ND		ug/kg	0.57	0.14	1
trans-1,2-Dichloroethene	ND		ug/kg	0.86	0.08	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-02 Date Collected: 08/16/18 09:50

Client ID: B3-S3 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.28	0.08	1
1,2-Dichlorobenzene	ND		ug/kg	1.1	0.08	1
1,3-Dichlorobenzene	ND		ug/kg	1.1	0.08	1
1,4-Dichlorobenzene	ND		ug/kg	1.1	0.10	1
Methyl tert butyl ether	ND		ug/kg	1.1	0.11	1
p/m-Xylene	ND		ug/kg	1.1	0.32	1
o-Xylene	ND		ug/kg	0.57	0.17	1
Xylenes, Total	ND		ug/kg	0.57	0.17	1
cis-1,2-Dichloroethene	ND		ug/kg	0.57	0.10	1
1,2-Dichloroethene, Total	ND		ug/kg	0.57	0.08	1
Dibromomethane	ND		ug/kg	1.1	0.14	1
1,2,3-Trichloropropane	ND		ug/kg	1.1	0.07	1
Styrene	ND		ug/kg	0.57	0.11	1
Dichlorodifluoromethane	ND		ug/kg	5.7	0.52	1
Acetone	ND		ug/kg	5.7	2.7	1
Carbon disulfide	ND		ug/kg	5.7	2.6	1
2-Butanone	ND		ug/kg	5.7	1.3	1
4-Methyl-2-pentanone	ND		ug/kg	5.7	0.73	1
2-Hexanone	ND		ug/kg	5.7	0.67	1
Bromochloromethane	ND		ug/kg	1.1	0.12	1
Tetrahydrofuran	ND		ug/kg	2.3	0.91	1
2,2-Dichloropropane	ND		ug/kg	1.1	0.12	1
1,2-Dibromoethane	ND		ug/kg	0.57	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.28	0.08	1
Bromobenzene	ND		ug/kg	1.1	0.08	1
n-Butylbenzene	ND		ug/kg	0.57	0.10	1
sec-Butylbenzene	ND		ug/kg	0.57	0.08	1
tert-Butylbenzene	ND		ug/kg	1.1	0.07	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.1	0.10	1
o-Chlorotoluene	ND		ug/kg	1.1	0.11	1
p-Chlorotoluene	ND		ug/kg	1.1	0.06	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.7	0.57	1
Hexachlorobutadiene	ND		ug/kg	2.3	0.10	1
Isopropylbenzene	ND		ug/kg	0.57	0.06	1
p-Isopropyltoluene	ND		ug/kg	0.57	0.06	1
Naphthalene	0.87	J	ug/kg	2.3	0.37	1
n-Propylbenzene	ND		ug/kg	0.57	0.10	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-02 Date Collected: 08/16/18 09:50

Client ID: B3-S3 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.1	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.1	0.16	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.1	0.11	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.1	0.19	1
Ethyl ether	ND		ug/kg	1.1	0.19	1
Isopropyl Ether	ND		ug/kg	1.1	0.12	1
Tert-Butyl Alcohol	ND		ug/kg	11	2.9	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.1	0.07	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.1	0.10	1
1,4-Dioxane	ND		ug/kg	57	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**131**	Q	70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	115		70-130

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-03
Client ID: B5-S3
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 12:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 14:26
Analyst: AD
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	140	J	ug/kg	170	79.	1
1,1-Dichloroethane	ND		ug/kg	34	5.0	1
Chloroform	ND		ug/kg	52	4.8	1
Carbon tetrachloride	ND		ug/kg	34	7.9	1
1,2-Dichloropropane	ND		ug/kg	34	4.3	1
Dibromochloromethane	ND		ug/kg	34	4.8	1
1,1,2-Trichloroethane	ND		ug/kg	34	9.2	1
Tetrachloroethene	ND		ug/kg	17	6.7	1
Chlorobenzene	71		ug/kg	17	4.4	1
Trichlorofluoromethane	ND		ug/kg	140	24.	1
1,2-Dichloroethane	ND		ug/kg	34	8.8	1
1,1,1-Trichloroethane	ND		ug/kg	17	5.7	1
Bromodichloromethane	ND		ug/kg	17	3.8	1
trans-1,3-Dichloropropene	ND		ug/kg	34	9.4	1
cis-1,3-Dichloropropene	ND		ug/kg	17	5.4	1
1,3-Dichloropropene, Total	ND		ug/kg	17	5.4	1
1,1-Dichloropropene	ND		ug/kg	17	5.5	1
Bromoform	ND		ug/kg	140	8.5	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	17	5.7	1
Benzene	ND		ug/kg	17	5.7	1
Toluene	ND		ug/kg	34	19.	1
Ethylbenzene	ND		ug/kg	34	4.8	1
Chloromethane	ND		ug/kg	140	32.	1
Bromomethane	ND		ug/kg	69	20.	1
Vinyl chloride	ND		ug/kg	34	12.	1
Chloroethane	ND		ug/kg	69	16.	1
1,1-Dichloroethene	ND		ug/kg	34	8.2	1
trans-1,2-Dichloroethene	ND		ug/kg	52	4.7	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-03 Date Collected: 08/16/18 12:00

Client ID: B5-S3 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	17	4.7	1
1,2-Dichlorobenzene	330		ug/kg	69	5.0	1
1,3-Dichlorobenzene	16	J	ug/kg	69	5.1	1
1,4-Dichlorobenzene	27	J	ug/kg	69	5.9	1
Methyl tert butyl ether	ND		ug/kg	69	6.9	1
p/m-Xylene	ND		ug/kg	69	19.	1
o-Xylene	ND		ug/kg	34	10.	1
Xylenes, Total	ND		ug/kg	34	10.	1
cis-1,2-Dichloroethene	ND		ug/kg	34	6.0	1
1,2-Dichloroethene, Total	ND		ug/kg	34	4.7	1
Dibromomethane	ND		ug/kg	69	8.2	1
1,2,3-Trichloropropane	ND		ug/kg	69	4.4	1
Styrene	ND		ug/kg	34	6.7	1
Dichlorodifluoromethane	ND		ug/kg	340	31.	1
Acetone	ND		ug/kg	340	160	1
Carbon disulfide	ND		ug/kg	340	160	1
2-Butanone	ND		ug/kg	340	76.	1
4-Methyl-2-pentanone	ND		ug/kg	340	44.	1
2-Hexanone	ND		ug/kg	340	40.	1
Bromochloromethane	ND		ug/kg	69	7.0	1
Tetrahydrofuran	ND		ug/kg	140	55.	1
2,2-Dichloropropane	ND		ug/kg	69	6.9	1
1,2-Dibromoethane	ND		ug/kg	34	9.6	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	17	4.5	1
Bromobenzene	ND		ug/kg	69	5.0	1
n-Butylbenzene	ND		ug/kg	34	5.7	1
sec-Butylbenzene	ND		ug/kg	34	5.0	1
tert-Butylbenzene	ND		ug/kg	69	4.0	1
1,3,5-Trichlorobenzene	ND		ug/kg	69	6.0	1
o-Chlorotoluene	ND		ug/kg	69	6.6	1
p-Chlorotoluene	ND		ug/kg	69	3.7	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	100	34.	1
Hexachlorobutadiene	ND		ug/kg	140	5.8	1
Isopropylbenzene	ND		ug/kg	34	3.8	1
p-Isopropyltoluene	ND		ug/kg	34	3.8	1
Naphthalene	210		ug/kg	140	22.	1
n-Propylbenzene	ND		ug/kg	34	5.9	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-03 Date Collected: 08/16/18 12:00

Client ID: B5-S3 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	69	11.	1
1,2,4-Trichlorobenzene	ND		ug/kg	69	9.4	1
1,3,5-Trimethylbenzene	ND		ug/kg	69	6.6	1
1,2,4-Trimethylbenzene	ND		ug/kg	69	11.	1
Ethyl ether	ND		ug/kg	69	12.	1
Isopropyl Ether	ND		ug/kg	69	7.3	1
Tert-Butyl Alcohol	ND		ug/kg	690	180	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	69	4.4	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	69	6.0	1
1,4-Dioxane	ND		ug/kg	3400	1200	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-04
Client ID: B6-S1
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 14:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 13:04
Analyst: JC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	2.3	J	ug/kg	3.1	1.4	1
1,1-Dichloroethane	ND		ug/kg	0.62	0.09	1
Chloroform	ND		ug/kg	0.94	0.09	1
Carbon tetrachloride	ND		ug/kg	0.62	0.14	1
1,2-Dichloropropane	ND		ug/kg	0.62	0.08	1
Dibromochloromethane	ND		ug/kg	0.62	0.09	1
1,1,2-Trichloroethane	ND		ug/kg	0.62	0.17	1
Tetrachloroethene	ND		ug/kg	0.31	0.12	1
Chlorobenzene	ND		ug/kg	0.31	0.08	1
Trichlorofluoromethane	ND		ug/kg	2.5	0.43	1
1,2-Dichloroethane	ND		ug/kg	0.62	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	0.31	0.10	1
Bromodichloromethane	ND		ug/kg	0.31	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.62	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	0.31	0.10	1
1,3-Dichloropropene, Total	ND		ug/kg	0.31	0.10	1
1,1-Dichloropropene	ND		ug/kg	0.31	0.10	1
Bromoform	ND		ug/kg	2.5	0.15	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.31	0.10	1
Benzene	ND		ug/kg	0.31	0.10	1
Toluene	ND		ug/kg	0.62	0.34	1
Ethylbenzene	ND		ug/kg	0.62	0.09	1
Chloromethane	ND		ug/kg	2.5	0.58	1
Bromomethane	ND		ug/kg	1.2	0.36	1
Vinyl chloride	ND		ug/kg	0.62	0.21	1
Chloroethane	ND		ug/kg	1.2	0.28	1
1,1-Dichloroethene	ND		ug/kg	0.62	0.15	1
trans-1,2-Dichloroethene	ND		ug/kg	0.94	0.09	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-04 Date Collected: 08/16/18 14:00

Client ID: B6-S1 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.31	0.09	1
1,2-Dichlorobenzene	ND		ug/kg	1.2	0.09	1
1,3-Dichlorobenzene	ND		ug/kg	1.2	0.09	1
1,4-Dichlorobenzene	ND		ug/kg	1.2	0.11	1
Methyl tert butyl ether	ND		ug/kg	1.2	0.12	1
p/m-Xylene	ND		ug/kg	1.2	0.35	1
o-Xylene	ND		ug/kg	0.62	0.18	1
Xylenes, Total	ND		ug/kg	0.62	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	0.62	0.11	1
1,2-Dichloroethene, Total	ND		ug/kg	0.62	0.09	1
Dibromomethane	ND		ug/kg	1.2	0.15	1
1,2,3-Trichloropropane	ND		ug/kg	1.2	0.08	1
Styrene	ND		ug/kg	0.62	0.12	1
Dichlorodifluoromethane	ND		ug/kg	6.2	0.57	1
Acetone	55		ug/kg	6.2	3.0	1
Carbon disulfide	ND		ug/kg	6.2	2.8	1
2-Butanone	ND		ug/kg	6.2	1.4	1
4-Methyl-2-pentanone	ND		ug/kg	6.2	0.80	1
2-Hexanone	ND		ug/kg	6.2	0.74	1
Bromochloromethane	ND		ug/kg	1.2	0.13	1
Tetrahydrofuran	ND		ug/kg	2.5	0.99	1
2,2-Dichloropropane	ND		ug/kg	1.2	0.13	1
1,2-Dibromoethane	ND		ug/kg	0.62	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.31	0.08	1
Bromobenzene	ND		ug/kg	1.2	0.09	1
n-Butylbenzene	ND		ug/kg	0.62	0.10	1
sec-Butylbenzene	ND		ug/kg	0.62	0.09	1
tert-Butylbenzene	ND		ug/kg	1.2	0.07	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.2	0.11	1
o-Chlorotoluene	ND		ug/kg	1.2	0.12	1
p-Chlorotoluene	ND		ug/kg	1.2	0.07	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.9	0.62	1
Hexachlorobutadiene	ND		ug/kg	2.5	0.10	1
Isopropylbenzene	ND		ug/kg	0.62	0.07	1
p-Isopropyltoluene	ND		ug/kg	0.62	0.07	1
Naphthalene	ND		ug/kg	2.5	0.40	1
n-Propylbenzene	ND		ug/kg	0.62	0.11	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-04 Date Collected: 08/16/18 14:00

Client ID: B6-S1 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.2	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.2	0.17	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.2	0.12	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.2	0.21	1
Ethyl ether	ND		ug/kg	1.2	0.21	1
Isopropyl Ether	ND		ug/kg	1.2	0.13	1
Tert-Butyl Alcohol	ND		ug/kg	12	3.2	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.2	0.08	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.2	0.11	1
1,4-Dioxane	ND		ug/kg	62	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**138**	Q	70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	117		70-130

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-05
Client ID: B12-S2
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 14:45
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 03:25
Analyst: JC
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	210	96.	1
1,1-Dichloroethane	ND		ug/kg	42	6.1	1
Chloroform	ND		ug/kg	63	5.9	1
Carbon tetrachloride	ND		ug/kg	42	9.7	1
1,2-Dichloropropane	ND		ug/kg	42	5.2	1
Dibromochloromethane	ND		ug/kg	42	5.9	1
1,1,2-Trichloroethane	ND		ug/kg	42	11.	1
Tetrachloroethene	ND		ug/kg	21	8.2	1
Chlorobenzene	ND		ug/kg	21	5.3	1
Trichlorofluoromethane	ND		ug/kg	170	29.	1
1,2-Dichloroethane	ND		ug/kg	42	11.	1
1,1,1-Trichloroethane	ND		ug/kg	21	7.0	1
Bromodichloromethane	ND		ug/kg	21	4.6	1
trans-1,3-Dichloropropene	ND		ug/kg	42	11.	1
cis-1,3-Dichloropropene	ND		ug/kg	21	6.6	1
1,3-Dichloropropene, Total	ND		ug/kg	21	6.6	1
1,1-Dichloropropene	ND		ug/kg	21	6.7	1
Bromoform	ND		ug/kg	170	10.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	21	7.0	1
Benzene	ND		ug/kg	21	7.0	1
Toluene	ND		ug/kg	42	23.	1
Ethylbenzene	33	J	ug/kg	42	5.9	1
Chloromethane	ND		ug/kg	170	39.	1
Bromomethane	ND		ug/kg	84	24.	1
Vinyl chloride	ND		ug/kg	42	14.	1
Chloroethane	ND		ug/kg	84	19.	1
1,1-Dichloroethene	ND		ug/kg	42	10.	1
trans-1,2-Dichloroethene	ND		ug/kg	63	5.8	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-05 Date Collected: 08/16/18 14:45

Client ID: B12-S2 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	21	5.8	1
1,2-Dichlorobenzene	ND		ug/kg	84	6.0	1
1,3-Dichlorobenzene	ND		ug/kg	84	6.2	1
1,4-Dichlorobenzene	ND		ug/kg	84	7.2	1
Methyl tert butyl ether	ND		ug/kg	84	8.4	1
p/m-Xylene	180		ug/kg	84	24.	1
o-Xylene	150		ug/kg	42	12.	1
Xylenes, Total	330		ug/kg	42	12.	1
cis-1,2-Dichloroethene	ND		ug/kg	42	7.4	1
1,2-Dichloroethene, Total	ND		ug/kg	42	5.8	1
Dibromomethane	ND		ug/kg	84	10.	1
1,2,3-Trichloropropane	ND		ug/kg	84	5.3	1
Styrene	34	J	ug/kg	42	8.2	1
Dichlorodifluoromethane	ND		ug/kg	420	38.	1
Acetone	ND		ug/kg	420	200	1
Carbon disulfide	ND		ug/kg	420	190	1
2-Butanone	ND		ug/kg	420	93.	1
4-Methyl-2-pentanone	ND		ug/kg	420	54.	1
2-Hexanone	ND		ug/kg	420	50.	1
Bromochloromethane	ND		ug/kg	84	8.6	1
Tetrahydrofuran	ND		ug/kg	170	67.	1
2,2-Dichloropropane	ND		ug/kg	84	8.5	1
1,2-Dibromoethane	ND		ug/kg	42	12.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	21	5.6	1
Bromobenzene	ND		ug/kg	84	6.1	1
n-Butylbenzene	21	J	ug/kg	42	7.0	1
sec-Butylbenzene	ND		ug/kg	42	6.1	1
tert-Butylbenzene	ND		ug/kg	84	5.0	1
1,3,5-Trichlorobenzene	ND		ug/kg	84	7.3	1
o-Chlorotoluene	ND		ug/kg	84	8.0	1
p-Chlorotoluene	ND		ug/kg	84	4.5	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	130	42.	1
Hexachlorobutadiene	ND		ug/kg	170	7.1	1
Isopropylbenzene	6.2	J	ug/kg	42	4.6	1
p-Isopropyltoluene	12	J	ug/kg	42	4.6	1
Naphthalene	3100		ug/kg	170	27.	1
n-Propylbenzene	29	J	ug/kg	42	7.2	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-05 Date Collected: 08/16/18 14:45

Client ID: B12-S2 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	84	14.	1
1,2,4-Trichlorobenzene	ND		ug/kg	84	11.	1
1,3,5-Trimethylbenzene	220		ug/kg	84	8.1	1
1,2,4-Trimethylbenzene	550		ug/kg	84	14.	1
Ethyl ether	ND		ug/kg	84	14.	1
Isopropyl Ether	ND		ug/kg	84	9.0	1
Tert-Butyl Alcohol	ND		ug/kg	840	220	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	84	5.4	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	84	7.4	1
1,4-Dioxane	ND		ug/kg	4200	1500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	96		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-06 Date Collected: 08/16/18 15:30
Client ID: B14-S2 Date Received: 08/17/18
Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 21:05
Analyst: JC
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	3.3	1.5	1
1,1-Dichloroethane	ND		ug/kg	0.65	0.10	1
Chloroform	ND		ug/kg	0.98	0.09	1
Carbon tetrachloride	ND		ug/kg	0.65	0.15	1
1,2-Dichloropropane	ND		ug/kg	0.65	0.08	1
Dibromochloromethane	ND		ug/kg	0.65	0.09	1
1,1,2-Trichloroethane	ND		ug/kg	0.65	0.17	1
Tetrachloroethene	0.44		ug/kg	0.33	0.13	1
Chlorobenzene	ND		ug/kg	0.33	0.08	1
Trichlorofluoromethane	ND		ug/kg	2.6	0.45	1
1,2-Dichloroethane	ND		ug/kg	0.65	0.17	1
1,1,1-Trichloroethane	ND		ug/kg	0.33	0.11	1
Bromodichloromethane	ND		ug/kg	0.33	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.65	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.33	0.10	1
1,3-Dichloropropene, Total	ND		ug/kg	0.33	0.10	1
1,1-Dichloropropene	ND		ug/kg	0.33	0.10	1
Bromoform	ND		ug/kg	2.6	0.16	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.33	0.11	1
Benzene	ND		ug/kg	0.33	0.11	1
Toluene	0.39	J	ug/kg	0.65	0.35	1
Ethylbenzene	ND		ug/kg	0.65	0.09	1
Chloromethane	ND		ug/kg	2.6	0.61	1
Bromomethane	ND		ug/kg	1.3	0.38	1
Vinyl chloride	ND		ug/kg	0.65	0.22	1
Chloroethane	ND		ug/kg	1.3	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.65	0.16	1
trans-1,2-Dichloroethene	ND		ug/kg	0.98	0.09	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-06 Date Collected: 08/16/18 15:30

Client ID: B14-S2 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.33	0.09	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	0.09	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	0.11	1
Methyl tert butyl ether	ND		ug/kg	1.3	0.13	1
p/m-Xylene	ND		ug/kg	1.3	0.36	1
o-Xylene	ND		ug/kg	0.65	0.19	1
Xylenes, Total	ND		ug/kg	0.65	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	0.65	0.11	1
1,2-Dichloroethene, Total	ND		ug/kg	0.65	0.09	1
Dibromomethane	ND		ug/kg	1.3	0.16	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	0.08	1
Styrene	ND		ug/kg	0.65	0.13	1
Dichlorodifluoromethane	ND		ug/kg	6.5	0.60	1
Acetone	ND		ug/kg	6.5	3.1	1
Carbon disulfide	ND		ug/kg	6.5	3.0	1
2-Butanone	ND		ug/kg	6.5	1.4	1
4-Methyl-2-pentanone	ND		ug/kg	6.5	0.84	1
2-Hexanone	ND		ug/kg	6.5	0.77	1
Bromochloromethane	ND		ug/kg	1.3	0.13	1
Tetrahydrofuran	ND		ug/kg	2.6	1.0	1
2,2-Dichloropropane	ND		ug/kg	1.3	0.13	1
1,2-Dibromoethane	ND		ug/kg	0.65	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.33	0.09	1
Bromobenzene	ND		ug/kg	1.3	0.10	1
n-Butylbenzene	ND		ug/kg	0.65	0.11	1
sec-Butylbenzene	ND		ug/kg	0.65	0.10	1
tert-Butylbenzene	ND		ug/kg	1.3	0.08	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.3	0.11	1
o-Chlorotoluene	ND		ug/kg	1.3	0.12	1
p-Chlorotoluene	ND		ug/kg	1.3	0.07	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.0	0.65	1
Hexachlorobutadiene	ND		ug/kg	2.6	0.11	1
Isopropylbenzene	ND		ug/kg	0.65	0.07	1
p-Isopropyltoluene	ND		ug/kg	0.65	0.07	1
Naphthalene	ND		ug/kg	2.6	0.42	1
n-Propylbenzene	ND		ug/kg	0.65	0.11	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-06 Date Collected: 08/16/18 15:30

Client ID: B14-S2 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	0.12	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	0.22	1
Ethyl ether	ND		ug/kg	1.3	0.22	1
Isopropyl Ether	ND		ug/kg	1.3	0.14	1
Tert-Butyl Alcohol	ND		ug/kg	13	3.4	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.3	0.08	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.3	0.11	1
1,4-Dioxane	ND		ug/kg	65	23.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	111		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-07
Client ID: B15-S4
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 09:20
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 14:00
Analyst: JC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	1.5	J	ug/kg	3.1	1.4	1
1,1-Dichloroethane	ND		ug/kg	0.62	0.09	1
Chloroform	ND		ug/kg	0.92	0.09	1
Carbon tetrachloride	ND		ug/kg	0.62	0.14	1
1,2-Dichloropropane	ND		ug/kg	0.62	0.08	1
Dibromochloromethane	ND		ug/kg	0.62	0.09	1
1,1,2-Trichloroethane	ND		ug/kg	0.62	0.16	1
Tetrachloroethene	ND		ug/kg	0.31	0.12	1
Chlorobenzene	ND		ug/kg	0.31	0.08	1
Trichlorofluoromethane	ND		ug/kg	2.5	0.43	1
1,2-Dichloroethane	ND		ug/kg	0.62	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	0.31	0.10	1
Bromodichloromethane	ND		ug/kg	0.31	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.62	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	0.31	0.10	1
1,3-Dichloropropene, Total	ND		ug/kg	0.31	0.10	1
1,1-Dichloropropene	ND		ug/kg	0.31	0.10	1
Bromoform	ND		ug/kg	2.5	0.15	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.31	0.10	1
Benzene	ND		ug/kg	0.31	0.10	1
Toluene	ND		ug/kg	0.62	0.33	1
Ethylbenzene	ND		ug/kg	0.62	0.09	1
Chloromethane	ND		ug/kg	2.5	0.57	1
Bromomethane	ND		ug/kg	1.2	0.36	1
Vinyl chloride	ND		ug/kg	0.62	0.21	1
Chloroethane	ND		ug/kg	1.2	0.28	1
1,1-Dichloroethene	ND		ug/kg	0.62	0.15	1
trans-1,2-Dichloroethene	ND		ug/kg	0.92	0.08	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-07 Date Collected: 08/16/18 09:20

Client ID: B15-S4 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.31	0.08	1
1,2-Dichlorobenzene	ND		ug/kg	1.2	0.09	1
1,3-Dichlorobenzene	ND		ug/kg	1.2	0.09	1
1,4-Dichlorobenzene	ND		ug/kg	1.2	0.10	1
Methyl tert butyl ether	ND		ug/kg	1.2	0.12	1
p/m-Xylene	ND		ug/kg	1.2	0.34	1
o-Xylene	ND		ug/kg	0.62	0.18	1
Xylenes, Total	ND		ug/kg	0.62	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	0.62	0.11	1
1,2-Dichloroethene, Total	ND		ug/kg	0.62	0.08	1
Dibromomethane	ND		ug/kg	1.2	0.15	1
1,2,3-Trichloropropane	ND		ug/kg	1.2	0.08	1
Styrene	ND		ug/kg	0.62	0.12	1
Dichlorodifluoromethane	ND		ug/kg	6.2	0.56	1
Acetone	ND		ug/kg	6.2	3.0	1
Carbon disulfide	ND		ug/kg	6.2	2.8	1
2-Butanone	ND		ug/kg	6.2	1.4	1
4-Methyl-2-pentanone	ND		ug/kg	6.2	0.79	1
2-Hexanone	ND		ug/kg	6.2	0.73	1
Bromochloromethane	ND		ug/kg	1.2	0.13	1
Tetrahydrofuran	ND		ug/kg	2.5	0.98	1
2,2-Dichloropropane	ND		ug/kg	1.2	0.12	1
1,2-Dibromoethane	ND		ug/kg	0.62	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.31	0.08	1
Bromobenzene	ND		ug/kg	1.2	0.09	1
n-Butylbenzene	ND		ug/kg	0.62	0.10	1
sec-Butylbenzene	ND		ug/kg	0.62	0.09	1
tert-Butylbenzene	ND		ug/kg	1.2	0.07	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.2	0.11	1
o-Chlorotoluene	ND		ug/kg	1.2	0.12	1
p-Chlorotoluene	ND		ug/kg	1.2	0.07	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.8	0.62	1
Hexachlorobutadiene	ND		ug/kg	2.5	0.10	1
Isopropylbenzene	ND		ug/kg	0.62	0.07	1
p-Isopropyltoluene	ND		ug/kg	0.62	0.07	1
Naphthalene	ND		ug/kg	2.5	0.40	1
n-Propylbenzene	ND		ug/kg	0.62	0.10	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-07 Date Collected: 08/16/18 09:20

Client ID: B15-S4 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.2	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.2	0.17	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.2	0.12	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.2	0.20	1
Ethyl ether	ND		ug/kg	1.2	0.21	1
Isopropyl Ether	ND		ug/kg	1.2	0.13	1
Tert-Butyl Alcohol	ND		ug/kg	12	3.2	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.2	0.08	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.2	0.11	1
1,4-Dioxane	ND		ug/kg	62	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**131**	Q	70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	119		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-08 Date Collected: 08/16/18 11:30
Client ID: B22-S2 Date Received: 08/17/18
Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 14:27
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	3.2	1.5	1
1,1-Dichloroethane	ND		ug/kg	0.64	0.09	1
Chloroform	ND		ug/kg	0.96	0.09	1
Carbon tetrachloride	ND		ug/kg	0.64	0.15	1
1,2-Dichloropropane	ND		ug/kg	0.64	0.08	1
Dibromochloromethane	ND		ug/kg	0.64	0.09	1
1,1,2-Trichloroethane	ND		ug/kg	0.64	0.17	1
Tetrachloroethene	ND		ug/kg	0.32	0.13	1
Chlorobenzene	ND		ug/kg	0.32	0.08	1
Trichlorofluoromethane	ND		ug/kg	2.6	0.45	1
1,2-Dichloroethane	ND		ug/kg	0.64	0.16	1
1,1,1-Trichloroethane	ND		ug/kg	0.32	0.11	1
Bromodichloromethane	ND		ug/kg	0.32	0.07	1
trans-1,3-Dichloropropene	ND		ug/kg	0.64	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.32	0.10	1
1,3-Dichloropropene, Total	ND		ug/kg	0.32	0.10	1
1,1-Dichloropropene	ND		ug/kg	0.32	0.10	1
Bromoform	ND		ug/kg	2.6	0.16	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.32	0.11	1
Benzene	ND		ug/kg	0.32	0.11	1
Toluene	ND		ug/kg	0.64	0.35	1
Ethylbenzene	ND		ug/kg	0.64	0.09	1
Chloromethane	ND		ug/kg	2.6	0.60	1
Bromomethane	ND		ug/kg	1.3	0.37	1
Vinyl chloride	ND		ug/kg	0.64	0.22	1
Chloroethane	ND		ug/kg	1.3	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.64	0.15	1
trans-1,2-Dichloroethene	ND		ug/kg	0.96	0.09	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-08 Date Collected: 08/16/18 11:30

Client ID: B22-S2 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.32	0.09	1
1,2-Dichlorobenzene	2.8		ug/kg	1.3	0.09	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	0.11	1
Methyl tert butyl ether	ND		ug/kg	1.3	0.13	1
p/m-Xylene	ND		ug/kg	1.3	0.36	1
o-Xylene	ND		ug/kg	0.64	0.19	1
Xylenes, Total	ND		ug/kg	0.64	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	0.64	0.11	1
1,2-Dichloroethene, Total	ND		ug/kg	0.64	0.09	1
Dibromomethane	ND		ug/kg	1.3	0.15	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	0.08	1
Styrene	ND		ug/kg	0.64	0.13	1
Dichlorodifluoromethane	ND		ug/kg	6.4	0.59	1
Acetone	15		ug/kg	6.4	3.1	1
Carbon disulfide	ND		ug/kg	6.4	2.9	1
2-Butanone	ND		ug/kg	6.4	1.4	1
4-Methyl-2-pentanone	ND		ug/kg	6.4	0.82	1
2-Hexanone	ND		ug/kg	6.4	0.76	1
Bromochloromethane	ND		ug/kg	1.3	0.13	1
Tetrahydrofuran	ND		ug/kg	2.6	1.0	1
2,2-Dichloropropane	ND		ug/kg	1.3	0.13	1
1,2-Dibromoethane	ND		ug/kg	0.64	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.32	0.09	1
Bromobenzene	ND		ug/kg	1.3	0.09	1
n-Butylbenzene	ND		ug/kg	0.64	0.11	1
sec-Butylbenzene	ND		ug/kg	0.64	0.09	1
tert-Butylbenzene	ND		ug/kg	1.3	0.08	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.3	0.11	1
o-Chlorotoluene	ND		ug/kg	1.3	0.12	1
p-Chlorotoluene	ND		ug/kg	1.3	0.07	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.9	0.64	1
Hexachlorobutadiene	ND		ug/kg	2.6	0.11	1
Isopropylbenzene	ND		ug/kg	0.64	0.07	1
p-Isopropyltoluene	ND		ug/kg	0.64	0.07	1
Naphthalene	ND		ug/kg	2.6	0.42	1
n-Propylbenzene	ND		ug/kg	0.64	0.11	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-08 Date Collected: 08/16/18 11:30

Client ID: B22-S2 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	0.17	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	0.12	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	0.21	1
Ethyl ether	ND		ug/kg	1.3	0.22	1
Isopropyl Ether	ND		ug/kg	1.3	0.14	1
Tert-Butyl Alcohol	ND		ug/kg	13	3.3	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.3	0.08	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.3	0.11	1
1,4-Dioxane	ND		ug/kg	64	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**137**	Q	70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	118		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-09 Date Collected: 08/16/18 07:50
Client ID: B26-S3 Date Received: 08/17/18
Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 15:19
Analyst: AD
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	270	120	1
1,1-Dichloroethane	ND		ug/kg	54	7.8	1
Chloroform	ND		ug/kg	81	7.6	1
Carbon tetrachloride	ND		ug/kg	54	12.	1
1,2-Dichloropropane	ND		ug/kg	54	6.8	1
Dibromochloromethane	ND		ug/kg	54	7.6	1
1,1,2-Trichloroethane	ND		ug/kg	54	14.	1
Tetrachloroethene	ND		ug/kg	27	11.	1
Chlorobenzene	ND		ug/kg	27	6.9	1
Trichlorofluoromethane	ND		ug/kg	220	38.	1
1,2-Dichloroethane	ND		ug/kg	54	14.	1
1,1,1-Trichloroethane	ND		ug/kg	27	9.0	1
Bromodichloromethane	ND		ug/kg	27	5.9	1
trans-1,3-Dichloropropene	ND		ug/kg	54	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	27	8.6	1
1,3-Dichloropropene, Total	ND		ug/kg	27	8.6	1
1,1-Dichloropropene	ND		ug/kg	27	8.6	1
Bromoform	ND		ug/kg	220	13.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	27	9.0	1
Benzene	ND		ug/kg	27	9.0	1
Toluene	ND		ug/kg	54	29.	1
Ethylbenzene	ND		ug/kg	54	7.6	1
Chloromethane	ND		ug/kg	220	50.	1
Bromomethane	ND		ug/kg	110	31.	1
Vinyl chloride	ND		ug/kg	54	18.	1
Chloroethane	ND		ug/kg	110	24.	1
1,1-Dichloroethene	ND		ug/kg	54	13.	1
trans-1,2-Dichloroethene	ND		ug/kg	81	7.4	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-09 Date Collected: 08/16/18 07:50

Client ID: B26-S3 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	27	7.4	1
1,2-Dichlorobenzene	ND		ug/kg	110	7.8	1
1,3-Dichlorobenzene	ND		ug/kg	110	8.0	1
1,4-Dichlorobenzene	ND		ug/kg	110	9.3	1
Methyl tert butyl ether	ND		ug/kg	110	11.	1
p/m-Xylene	ND		ug/kg	110	30.	1
o-Xylene	23	J	ug/kg	54	16.	1
Xylenes, Total	23	J	ug/kg	54	16.	1
cis-1,2-Dichloroethene	ND		ug/kg	54	9.5	1
1,2-Dichloroethene, Total	ND		ug/kg	54	7.4	1
Dibromomethane	ND		ug/kg	110	13.	1
1,2,3-Trichloropropane	ND		ug/kg	110	6.9	1
Styrene	16	J	ug/kg	54	11.	1
Dichlorodifluoromethane	ND		ug/kg	540	50.	1
Acetone	ND		ug/kg	540	260	1
Carbon disulfide	ND		ug/kg	540	250	1
2-Butanone	ND		ug/kg	540	120	1
4-Methyl-2-pentanone	ND		ug/kg	540	69.	1
2-Hexanone	ND		ug/kg	540	64.	1
Bromochloromethane	ND		ug/kg	110	11.	1
Tetrahydrofuran	ND		ug/kg	220	86.	1
2,2-Dichloropropane	ND		ug/kg	110	11.	1
1,2-Dibromoethane	ND		ug/kg	54	15.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	27	7.2	1
Bromobenzene	ND		ug/kg	110	7.8	1
n-Butylbenzene	ND		ug/kg	54	9.0	1
sec-Butylbenzene	ND		ug/kg	54	7.9	1
tert-Butylbenzene	ND		ug/kg	110	6.4	1
1,3,5-Trichlorobenzene	ND		ug/kg	110	9.4	1
o-Chlorotoluene	ND		ug/kg	110	10.	1
p-Chlorotoluene	ND		ug/kg	110	5.8	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	54.	1
Hexachlorobutadiene	ND		ug/kg	220	9.2	1
Isopropylbenzene	ND		ug/kg	54	5.9	1
p-Isopropyltoluene	ND		ug/kg	54	5.9	1
Naphthalene	23000	E	ug/kg	220	35.	1
n-Propylbenzene	ND		ug/kg	54	9.3	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-09 Date Collected: 08/16/18 07:50

Client ID: B26-S3 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	110	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	15.	1
1,3,5-Trimethylbenzene	35	J	ug/kg	110	10.	1
1,2,4-Trimethylbenzene	100	J	ug/kg	110	18.	1
Ethyl ether	ND		ug/kg	110	18.	1
Isopropyl Ether	ND		ug/kg	110	12.	1
Tert-Butyl Alcohol	ND		ug/kg	1100	280	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	110	6.9	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	110	9.5	1
1,4-Dioxane	ND		ug/kg	5400	1900	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	96		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-09 D
Client ID: B26-S3
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 07:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 04:18
Analyst: JC
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Naphthalene	24000		ug/kg	870	140	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	97		70-130

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-13
Client ID: VOC-DUP2
Sample Location: JAFFREY, NH
Date Collected: 08/17/18 10:45
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 14:55
Analyst: JC
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.1	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.82	0.12	1
Chloroform	ND		ug/kg	1.2	0.12	1
Carbon tetrachloride	ND		ug/kg	0.82	0.19	1
1,2-Dichloropropane	ND		ug/kg	0.82	0.10	1
Dibromochloromethane	ND		ug/kg	0.82	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.82	0.22	1
Tetrachloroethene	ND		ug/kg	0.41	0.16	1
Chlorobenzene	ND		ug/kg	0.41	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.3	0.57	1
1,2-Dichloroethane	ND		ug/kg	0.82	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.41	0.14	1
Bromodichloromethane	ND		ug/kg	0.41	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.82	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	0.41	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	0.41	0.13	1
1,1-Dichloropropene	ND		ug/kg	0.41	0.13	1
Bromoform	ND		ug/kg	3.3	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.41	0.14	1
Benzene	ND		ug/kg	0.41	0.14	1
Toluene	ND		ug/kg	0.82	0.45	1
Ethylbenzene	ND		ug/kg	0.82	0.12	1
Chloromethane	ND		ug/kg	3.3	0.77	1
Bromomethane	ND		ug/kg	1.6	0.48	1
Vinyl chloride	ND		ug/kg	0.82	0.28	1
Chloroethane	ND		ug/kg	1.6	0.37	1
1,1-Dichloroethene	ND		ug/kg	0.82	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.11	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-13 Date Collected: 08/17/18 10:45

Client ID: VOC-DUP2 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.41	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.16	1
p/m-Xylene	ND		ug/kg	1.6	0.46	1
o-Xylene	ND		ug/kg	0.82	0.24	1
Xylenes, Total	ND		ug/kg	0.82	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	0.82	0.14	1
1,2-Dichloroethene, Total	ND		ug/kg	0.82	0.11	1
Dibromomethane	ND		ug/kg	1.6	0.20	1
1,2,3-Trichloropropane	ND		ug/kg	1.6	0.10	1
Styrene	ND		ug/kg	0.82	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.2	0.76	1
Acetone	ND		ug/kg	8.2	4.0	1
Carbon disulfide	ND		ug/kg	8.2	3.8	1
2-Butanone	ND		ug/kg	8.2	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.2	1.0	1
2-Hexanone	ND		ug/kg	8.2	0.97	1
Bromochloromethane	ND		ug/kg	1.6	0.17	1
Tetrahydrofuran	ND		ug/kg	3.3	1.3	1
2,2-Dichloropropane	ND		ug/kg	1.6	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.82	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.41	0.11	1
Bromobenzene	ND		ug/kg	1.6	0.12	1
n-Butylbenzene	ND		ug/kg	0.82	0.14	1
sec-Butylbenzene	ND		ug/kg	0.82	0.12	1
tert-Butylbenzene	ND		ug/kg	1.6	0.10	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.6	0.14	1
o-Chlorotoluene	ND		ug/kg	1.6	0.16	1
p-Chlorotoluene	ND		ug/kg	1.6	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	0.82	1
Hexachlorobutadiene	ND		ug/kg	3.3	0.14	1
Isopropylbenzene	ND		ug/kg	0.82	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.82	0.09	1
Naphthalene	ND		ug/kg	3.3	0.54	1
n-Propylbenzene	ND		ug/kg	0.82	0.14	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-13 Date Collected: 08/17/18 10:45

Client ID: VOC-DUP2 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	0.28	1
Ethyl ether	ND		ug/kg	1.6	0.28	1
Isopropyl Ether	ND		ug/kg	1.6	0.18	1
Tert-Butyl Alcohol	ND		ug/kg	16	4.2	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.6	0.10	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.6	0.14	1
1,4-Dioxane	ND		ug/kg	82	29.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**136**	Q	70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	117		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-18 Date Collected: 08/15/18 00:00
Client ID: TRIP BLANK Date Received: 08/17/18
Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/29/18 03:52
Analyst: JC
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	250	110	1
1,1-Dichloroethane	ND		ug/kg	50	7.2	1
Chloroform	ND		ug/kg	75	7.0	1
Carbon tetrachloride	ND		ug/kg	50	12.	1
1,2-Dichloropropane	ND		ug/kg	50	6.2	1
Dibromochloromethane	ND		ug/kg	50	7.0	1
1,1,2-Trichloroethane	ND		ug/kg	50	13.	1
Tetrachloroethene	ND		ug/kg	25	9.8	1
Chlorobenzene	ND		ug/kg	25	6.4	1
Trichlorofluoromethane	ND		ug/kg	200	35.	1
1,2-Dichloroethane	ND		ug/kg	50	13.	1
1,1,1-Trichloroethane	ND		ug/kg	25	8.4	1
Bromodichloromethane	ND		ug/kg	25	5.4	1
trans-1,3-Dichloropropene	ND		ug/kg	50	14.	1
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9	1
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9	1
1,1-Dichloropropene	ND		ug/kg	25	8.0	1
Bromoform	ND		ug/kg	200	12.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3	1
Benzene	ND		ug/kg	25	8.3	1
Toluene	ND		ug/kg	50	27.	1
Ethylbenzene	ND		ug/kg	50	7.0	1
Chloromethane	ND		ug/kg	200	47.	1
Bromomethane	ND		ug/kg	100	29.	1
Vinyl chloride	ND		ug/kg	50	17.	1
Chloroethane	ND		ug/kg	100	23.	1
1,1-Dichloroethene	ND		ug/kg	50	12.	1
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-18 Date Collected: 08/15/18 00:00

Client ID: TRIP BLANK Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	25	6.8	1
1,2-Dichlorobenzene	ND		ug/kg	100	7.2	1
1,3-Dichlorobenzene	ND		ug/kg	100	7.4	1
1,4-Dichlorobenzene	ND		ug/kg	100	8.6	1
Methyl tert butyl ether	ND		ug/kg	100	10.	1
p/m-Xylene	ND		ug/kg	100	28.	1
o-Xylene	ND		ug/kg	50	14.	1
Xylenes, Total	ND		ug/kg	50	14.	1
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8	1
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8	1
Dibromomethane	ND		ug/kg	100	12.	1
1,2,3-Trichloropropane	ND		ug/kg	100	6.4	1
Styrene	ND		ug/kg	50	9.8	1
Dichlorodifluoromethane	ND		ug/kg	500	46.	1
Acetone	ND		ug/kg	500	240	1
Carbon disulfide	ND		ug/kg	500	230	1
2-Butanone	ND		ug/kg	500	110	1
4-Methyl-2-pentanone	ND		ug/kg	500	64.	1
2-Hexanone	ND		ug/kg	500	59.	1
Bromochloromethane	ND		ug/kg	100	10.	1
Tetrahydrofuran	ND		ug/kg	200	80.	1
2,2-Dichloropropane	ND		ug/kg	100	10.	1
1,2-Dibromoethane	ND		ug/kg	50	14.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6	1
Bromobenzene	ND		ug/kg	100	7.2	1
n-Butylbenzene	ND		ug/kg	50	8.4	1
sec-Butylbenzene	ND		ug/kg	50	7.3	1
tert-Butylbenzene	ND		ug/kg	100	5.9	1
1,3,5-Trichlorobenzene	ND		ug/kg	100	8.6	1
o-Chlorotoluene	ND		ug/kg	100	9.6	1
p-Chlorotoluene	ND		ug/kg	100	5.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.	1
Hexachlorobutadiene	ND		ug/kg	200	8.4	1
Isopropylbenzene	ND		ug/kg	50	5.4	1
p-Isopropyltoluene	ND		ug/kg	50	5.4	1
Naphthalene	32	J	ug/kg	200	32.	1
n-Propylbenzene	ND		ug/kg	50	8.6	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-18 Date Collected: 08/15/18 00:00

Client ID: TRIP BLANK Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.	1
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.	1
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6	1
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.	1
Ethyl ether	ND		ug/kg	100	17.	1
Isopropyl Ether	ND		ug/kg	100	11.	1
Tert-Butyl Alcohol	ND		ug/kg	1000	260	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	6.4	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	8.8	1
1,4-Dioxane	ND		ug/kg	5000	1800	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	95		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-20
Client ID: B12-S4
Sample Location: JAFFREY, NH

Date Collected: 08/17/18 15:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/28/18 15:23
Analyst: JC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Methylene chloride	2.6	J	ug/kg	3.4	1.6	1
1,1-Dichloroethane	ND		ug/kg	0.69	0.10	1
Chloroform	ND		ug/kg	1.0	0.10	1
Carbon tetrachloride	ND		ug/kg	0.69	0.16	1
1,2-Dichloropropane	ND		ug/kg	0.69	0.09	1
Dibromochloromethane	ND		ug/kg	0.69	0.10	1
1,1,2-Trichloroethane	ND		ug/kg	0.69	0.18	1
Tetrachloroethene	ND		ug/kg	0.34	0.13	1
Chlorobenzene	ND		ug/kg	0.34	0.09	1
Trichlorofluoromethane	ND		ug/kg	2.7	0.48	1
1,2-Dichloroethane	ND		ug/kg	0.69	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	0.34	0.11	1
Bromodichloromethane	ND		ug/kg	0.34	0.08	1
trans-1,3-Dichloropropene	ND		ug/kg	0.69	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.34	0.11	1
1,3-Dichloropropene, Total	ND		ug/kg	0.34	0.11	1
1,1-Dichloropropene	ND		ug/kg	0.34	0.11	1
Bromoform	ND		ug/kg	2.7	0.17	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.34	0.11	1
Benzene	ND		ug/kg	0.34	0.11	1
Toluene	ND		ug/kg	0.69	0.37	1
Ethylbenzene	ND		ug/kg	0.69	0.10	1
Chloromethane	ND		ug/kg	2.7	0.64	1
Bromomethane	ND		ug/kg	1.4	0.40	1
Vinyl chloride	ND		ug/kg	0.69	0.23	1
Chloroethane	ND		ug/kg	1.4	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.69	0.16	1
trans-1,2-Dichloroethene	ND		ug/kg	1.0	0.09	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-20 Date Collected: 08/17/18 15:00

Client ID: B12-S4 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.34	0.09	1
1,2-Dichlorobenzene	ND		ug/kg	1.4	0.10	1
1,3-Dichlorobenzene	ND		ug/kg	1.4	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	1.4	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.4	0.14	1
p/m-Xylene	ND		ug/kg	1.4	0.38	1
o-Xylene	ND		ug/kg	0.69	0.20	1
Xylenes, Total	ND		ug/kg	0.69	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	0.69	0.12	1
1,2-Dichloroethene, Total	ND		ug/kg	0.69	0.09	1
Dibromomethane	ND		ug/kg	1.4	0.16	1
1,2,3-Trichloropropane	ND		ug/kg	1.4	0.09	1
Styrene	ND		ug/kg	0.69	0.13	1
Dichlorodifluoromethane	ND		ug/kg	6.9	0.63	1
Acetone	9.3		ug/kg	6.9	3.3	1
Carbon disulfide	ND		ug/kg	6.9	3.1	1
2-Butanone	ND		ug/kg	6.9	1.5	1
4-Methyl-2-pentanone	ND		ug/kg	6.9	0.88	1
2-Hexanone	ND		ug/kg	6.9	0.81	1
Bromochloromethane	ND		ug/kg	1.4	0.14	1
Tetrahydrofuran	ND		ug/kg	2.7	1.1	1
2,2-Dichloropropane	ND		ug/kg	1.4	0.14	1
1,2-Dibromoethane	ND		ug/kg	0.69	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.34	0.09	1
Bromobenzene	ND		ug/kg	1.4	0.10	1
n-Butylbenzene	ND		ug/kg	0.69	0.11	1
sec-Butylbenzene	ND		ug/kg	0.69	0.10	1
tert-Butylbenzene	ND		ug/kg	1.4	0.08	1
1,3,5-Trichlorobenzene	ND		ug/kg	1.4	0.12	1
o-Chlorotoluene	ND		ug/kg	1.4	0.13	1
p-Chlorotoluene	ND		ug/kg	1.4	0.07	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.1	0.68	1
Hexachlorobutadiene	ND		ug/kg	2.7	0.12	1
Isopropylbenzene	ND		ug/kg	0.69	0.08	1
p-Isopropyltoluene	ND		ug/kg	0.69	0.08	1
Naphthalene	ND		ug/kg	2.7	0.45	1
n-Propylbenzene	ND		ug/kg	0.69	0.12	1

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-20 Date Collected: 08/17/18 15:00

Client ID: B12-S4 Date Received: 08/17/18

Sample Location: JAFFREY, NH Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.4	0.22	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.4	0.19	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.4	0.13	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.4	0.23	1
Ethyl ether	ND		ug/kg	1.4	0.23	1
Isopropyl Ether	ND		ug/kg	1.4	0.15	1
Tert-Butyl Alcohol	ND		ug/kg	14	3.5	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.4	0.09	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.4	0.12	1
1,4-Dioxane	ND		ug/kg	69	24.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**139**	Q	70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	121		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 08:05
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 02,04,07-08,13,20 Batch: WG1151440-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 08:05
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 02,04,07-08,13,20 Batch: WG1151440-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
Tetrahydrofuran	ND		ug/kg	4.0	1.6
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,3,5-Trichlorobenzene	ND		ug/kg	2.0	0.17
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 08:05
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 02,04,07-08,13,20 Batch: WG1151440-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Ethyl ether	ND		ug/kg	2.0	0.34
Isopropyl Ether	ND		ug/kg	2.0	0.21
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	0.13
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	0.18
1,4-Dioxane	ND		ug/kg	100	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	114		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 20:16
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05,09,18 Batch: WG1151449-10					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 20:16
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05,09,18 Batch: WG1151449-10					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	10	J	ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
Tetrahydrofuran	ND		ug/kg	200	80.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
1,3,5-Trichlorobenzene	ND		ug/kg	100	8.6
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 20:16
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05,09,18 Batch: WG1151449-10					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
Ethyl ether	ND		ug/kg	100	17.
Isopropyl Ether	ND		ug/kg	100	11.
Tert-Butyl Alcohol	ND		ug/kg	1000	260
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	6.4
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	8.8
1,4-Dioxane	ND		ug/kg	5000	1800

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 07:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03,09 Batch: WG1151449-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 07:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03,09 Batch: WG1151449-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
Tetrahydrofuran	ND		ug/kg	200	80.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
1,3,5-Trichlorobenzene	ND		ug/kg	100	8.6
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 07:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03,09 Batch: WG1151449-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
Ethyl ether	ND		ug/kg	100	17.
Isopropyl Ether	ND		ug/kg	100	11.
Tert-Butyl Alcohol	ND		ug/kg	1000	260
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	6.4
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	8.8
1,4-Dioxane	ND		ug/kg	5000	1800

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	96		70-130

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 20:10
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01,06 Batch: WG1151766-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 20:10
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01,06 Batch: WG1151766-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
Tetrahydrofuran	ND		ug/kg	4.0	1.6
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,3,5-Trichlorobenzene	ND		ug/kg	2.0	0.17
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/28/18 20:10
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-5035 - Westborough Lab for sample(s): 01,06 Batch: WG1151766-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Ethyl ether	ND		ug/kg	2.0	0.34
Isopropyl Ether	ND		ug/kg	2.0	0.21
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	0.13
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	0.18
1,4-Dioxane	ND		ug/kg	100	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	108		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832546

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 02,04,07-08,13,20 Batch: WG1151440-3 WG1151440-4								
Methylene chloride	115		106		70-130	8		30
1,1-Dichloroethane	122		116		70-130	5		30
Chloroform	113		108		70-130	5		30
Carbon tetrachloride	114		107		70-130	6		30
1,2-Dichloropropane	112		111		70-130	1		30
Dibromochloromethane	95		92		70-130	3		30
1,1,2-Trichloroethane	103		103		70-130	0		30
Tetrachloroethene	97		88		70-130	10		30
Chlorobenzene	93		89		70-130	4		30
Trichlorofluoromethane	104		94		70-139	10		30
1,2-Dichloroethane	122		121		70-130	1		30
1,1,1-Trichloroethane	116		110		70-130	5		30
Bromodichloromethane	114		114		70-130	0		30
trans-1,3-Dichloropropene	108		105		70-130	3		30
cis-1,3-Dichloropropene	109		108		70-130	1		30
1,1-Dichloropropene	110		102		70-130	8		30
Bromoform	103		103		70-130	0		30
1,1,2,2-Tetrachloroethane	105		104		70-130	1		30
Benzene	107		104		70-130	3		30
Toluene	100		97		70-130	3		30
Ethylbenzene	101		96		70-130	5		30
Chloromethane	109		106		52-130	3		30
Bromomethane	91		86		57-147	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832546

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 02,04,07-08,13,20 Batch: WG1151440-3 WG1151440-4								
Vinyl chloride	116		110		67-130	5		30
Chloroethane	117		110		50-151	6		30
1,1-Dichloroethene	106		100		65-135	6		30
trans-1,2-Dichloroethene	105		102		70-130	3		30
Trichloroethene	108		102		70-130	6		30
1,2-Dichlorobenzene	90		92		70-130	2		30
1,3-Dichlorobenzene	92		92		70-130	0		30
1,4-Dichlorobenzene	90		86		70-130	5		30
Methyl tert butyl ether	102		100		66-130	2		30
p/m-Xylene	97		94		70-130	3		30
o-Xylene	94		93		70-130	1		30
cis-1,2-Dichloroethene	104		100		70-130	4		30
Dibromomethane	105		103		70-130	2		30
1,2,3-Trichloropropane	112		111		68-130	1		30
Styrene	96		93		70-130	3		30
Dichlorodifluoromethane	100		90		30-146	11		30
Acetone	127		116		54-140	9		30
Carbon disulfide	115		106		59-130	8		30
2-Butanone	77		91		70-130	17		30
4-Methyl-2-pentanone	92		91		70-130	1		30
2-Hexanone	88		85		70-130	3		30
Bromochloromethane	98		90		70-130	9		30
Tetrahydrofuran	120		125		66-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832546

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 02,04,07-08,13,20 Batch: WG1151440-3 WG1151440-4								
2,2-Dichloropropane	127		121		70-130	5		30
1,2-Dibromoethane	92		97		70-130	5		30
1,1,1,2-Tetrachloroethane	97		94		70-130	3		30
Bromobenzene	92		91		70-130	1		30
n-Butylbenzene	107		104		70-130	3		30
sec-Butylbenzene	97		95		70-130	2		30
tert-Butylbenzene	89		87		70-130	2		30
1,3,5-Trichlorobenzene	95		95		70-139	0		30
o-Chlorotoluene	102		102		70-130	0		30
p-Chlorotoluene	103		100		70-130	3		30
1,2-Dibromo-3-chloropropane	89		91		68-130	2		30
Hexachlorobutadiene	112		115		67-130	3		30
Isopropylbenzene	92		90		70-130	2		30
p-Isopropyltoluene	89		88		70-130	1		30
Naphthalene	78		79		70-130	1		30
n-Propylbenzene	101		99		70-130	2		30
1,2,3-Trichlorobenzene	97		96		70-130	1		30
1,2,4-Trichlorobenzene	91		90		70-130	1		30
1,3,5-Trimethylbenzene	97		97		70-130	0		30
1,2,4-Trimethylbenzene	97		96		70-130	1		30
Ethyl ether	103		96		67-130	7		30
Isopropyl Ether	102		103		66-130	1		30
Tert-Butyl Alcohol	112		109		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

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Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 02,04,07-08,13,20 Batch: WG1151440-3 WG1151440-4								
Ethyl-Tert-Butyl-Ether	101		101		70-130	0		30
Tertiary-Amyl Methyl Ether	98		98		70-130	0		30
1,4-Dioxane	99		103		65-136	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	119		119		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	110		110		70-130
Dibromofluoromethane	108		104		70-130

Lab Control Sample Analysis
Batch Quality Control

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Lab Number: L1832546
Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03,09 Batch: WG1151449-3 WG1151449-4								
Methylene chloride	83		81		70-130	2		30
1,1-Dichloroethane	90		89		70-130	1		30
Chloroform	89		91		70-130	2		30
Carbon tetrachloride	92		92		70-130	0		30
1,2-Dichloropropane	95		94		70-130	1		30
Dibromochloromethane	95		94		70-130	1		30
1,1,2-Trichloroethane	99		98		70-130	1		30
Tetrachloroethene	92		91		70-130	1		30
Chlorobenzene	89		89		70-130	0		30
Trichlorofluoromethane	89		88		70-139	1		30
1,2-Dichloroethane	95		94		70-130	1		30
1,1,1-Trichloroethane	93		92		70-130	1		30
Bromodichloromethane	97		96		70-130	1		30
trans-1,3-Dichloropropene	90		90		70-130	0		30
cis-1,3-Dichloropropene	99		97		70-130	2		30
1,1-Dichloropropene	94		93		70-130	1		30
Bromoform	94		92		70-130	2		30
1,1,2,2-Tetrachloroethane	100		98		70-130	2		30
Benzene	90		89		70-130	1		30
Toluene	89		89		70-130	0		30
Ethylbenzene	90		89		70-130	1		30
Chloromethane	82		90		52-130	9		30
Bromomethane	85		82		57-147	4		30

Lab Control Sample Analysis

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03,09 Batch: WG1151449-3 WG1151449-4								
Vinyl chloride	86		84		67-130	2		30
Chloroethane	88		86		50-151	2		30
1,1-Dichloroethene	85		85		65-135	0		30
trans-1,2-Dichloroethene	86		86		70-130	0		30
Trichloroethene	92		91		70-130	1		30
1,2-Dichlorobenzene	91		91		70-130	0		30
1,3-Dichlorobenzene	91		90		70-130	1		30
1,4-Dichlorobenzene	91		91		70-130	0		30
Methyl tert butyl ether	91		89		66-130	2		30
p/m-Xylene	90		90		70-130	0		30
o-Xylene	90		90		70-130	0		30
cis-1,2-Dichloroethene	88		89		70-130	1		30
Dibromomethane	98		96		70-130	2		30
1,2,3-Trichloropropane	99		96		68-130	3		30
Styrene	88		89		70-130	1		30
Dichlorodifluoromethane	79		78		30-146	1		30
Acetone	87		86		54-140	1		30
Carbon disulfide	82		83		59-130	1		30
2-Butanone	78		82		70-130	5		30
4-Methyl-2-pentanone	91		88		70-130	3		30
2-Hexanone	89		88		70-130	1		30
Bromochloromethane	94		92		70-130	2		30
Tetrahydrofuran	103		98		66-130	5		30

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03,09 Batch: WG1151449-3 WG1151449-4								
2,2-Dichloropropane	95		94		70-130	1		30
1,2-Dibromoethane	98		96		70-130	2		30
1,1,1,2-Tetrachloroethane	93		93		70-130	0		30
Bromobenzene	90		89		70-130	1		30
n-Butylbenzene	94		94		70-130	0		30
sec-Butylbenzene	93		92		70-130	1		30
tert-Butylbenzene	90		89		70-130	1		30
1,3,5-Trichlorobenzene	91		90		70-139	1		30
o-Chlorotoluene	98		97		70-130	1		30
p-Chlorotoluene	91		92		70-130	1		30
1,2-Dibromo-3-chloropropane	85		83		68-130	2		30
Hexachlorobutadiene	87		88		67-130	1		30
Isopropylbenzene	92		90		70-130	2		30
p-Isopropyltoluene	91		90		70-130	1		30
Naphthalene	90		89		70-130	1		30
n-Propylbenzene	93		92		70-130	1		30
1,2,3-Trichlorobenzene	88		89		70-130	1		30
1,2,4-Trichlorobenzene	90		90		70-130	0		30
1,3,5-Trimethylbenzene	90		90		70-130	0		30
1,2,4-Trimethylbenzene	90		89		70-130	1		30
Ethyl ether	88		86		67-130	2		30
Isopropyl Ether	92		90		66-130	2		30
Tert-Butyl Alcohol	94		93		70-130	1		30

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03,09 Batch: WG1151449-3 WG1151449-4								
Ethyl-Tert-Butyl-Ether	92		92		70-130	0		30
Tertiary-Amyl Methyl Ether	95		94		70-130	1		30
1,4-Dioxane	101		102		65-136	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		100		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	100		100		70-130

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05,09,18 Batch: WG1151449-8 WG1151449-9								
Methylene chloride	86		86		70-130	0		30
1,1-Dichloroethane	91		91		70-130	0		30
Chloroform	94		92		70-130	2		30
Carbon tetrachloride	93		93		70-130	0		30
1,2-Dichloropropane	94		94		70-130	0		30
Dibromochloromethane	96		97		70-130	1		30
1,1,2-Trichloroethane	98		100		70-130	2		30
Tetrachloroethene	92		92		70-130	0		30
Chlorobenzene	92		92		70-130	0		30
Trichlorofluoromethane	85		87		70-139	2		30
1,2-Dichloroethane	94		95		70-130	1		30
1,1,1-Trichloroethane	92		93		70-130	1		30
Bromodichloromethane	96		97		70-130	1		30
trans-1,3-Dichloropropene	91		91		70-130	0		30
cis-1,3-Dichloropropene	99		99		70-130	0		30
1,1-Dichloropropene	94		93		70-130	1		30
Bromoform	95		98		70-130	3		30
1,1,2,2-Tetrachloroethane	100		101		70-130	1		30
Benzene	92		92		70-130	0		30
Toluene	90		90		70-130	0		30
Ethylbenzene	91		90		70-130	1		30
Chloromethane	81		78		52-130	4		30
Bromomethane	83		82		57-147	1		30

Lab Control Sample Analysis

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Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832546

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05,09,18 Batch: WG1151449-8 WG1151449-9								
Vinyl chloride	81		80		67-130	1		30
Chloroethane	84		85		50-151	1		30
1,1-Dichloroethene	88		87		65-135	1		30
trans-1,2-Dichloroethene	90		90		70-130	0		30
Trichloroethene	94		95		70-130	1		30
1,2-Dichlorobenzene	93		93		70-130	0		30
1,3-Dichlorobenzene	93		93		70-130	0		30
1,4-Dichlorobenzene	92		93		70-130	1		30
Methyl tert butyl ether	92		93		66-130	1		30
p/m-Xylene	91		91		70-130	0		30
o-Xylene	92		92		70-130	0		30
cis-1,2-Dichloroethene	92		92		70-130	0		30
Dibromomethane	97		100		70-130	3		30
1,2,3-Trichloropropane	100		98		68-130	2		30
Styrene	91		90		70-130	1		30
Dichlorodifluoromethane	74		71		30-146	4		30
Acetone	90		88		54-140	2		30
Carbon disulfide	84		84		59-130	0		30
2-Butanone	84		88		70-130	5		30
4-Methyl-2-pentanone	90		91		70-130	1		30
2-Hexanone	86		91		70-130	6		30
Bromochloromethane	96		96		70-130	0		30
Tetrahydrofuran	100		101		66-130	1		30

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Project Name: WW CROSS PROPERTY
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05,09,18 Batch: WG1151449-8 WG1151449-9								
2,2-Dichloropropane	97		94		70-130	3		30
1,2-Dibromoethane	100		100		70-130	0		30
1,1,1,2-Tetrachloroethane	96		97		70-130	1		30
Bromobenzene	94		94		70-130	0		30
n-Butylbenzene	93		92		70-130	1		30
sec-Butylbenzene	92		92		70-130	0		30
tert-Butylbenzene	91		90		70-130	1		30
1,3,5-Trichlorobenzene	93		93		70-139	0		30
o-Chlorotoluene	99		99		70-130	0		30
p-Chlorotoluene	94		92		70-130	2		30
1,2-Dibromo-3-chloropropane	90		90		68-130	0		30
Hexachlorobutadiene	85		85		67-130	0		30
Isopropylbenzene	92		92		70-130	0		30
p-Isopropyltoluene	91		91		70-130	0		30
Naphthalene	94		94		70-130	0		30
n-Propylbenzene	93		93		70-130	0		30
1,2,3-Trichlorobenzene	93		94		70-130	1		30
1,2,4-Trichlorobenzene	93		94		70-130	1		30
1,3,5-Trimethylbenzene	91		92		70-130	1		30
1,2,4-Trimethylbenzene	91		91		70-130	0		30
Ethyl ether	90		91		67-130	1		30
Isopropyl Ether	89		90		66-130	1		30
Tert-Butyl Alcohol	101		102		70-130	1		30

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05,09,18 Batch: WG1151449-8 WG1151449-9								
Ethyl-Tert-Butyl-Ether	92		93		70-130	1		30
Tertiary-Amyl Methyl Ether	95		96		70-130	1		30
1,4-Dioxane	120		121		65-136	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		100		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	102		101		70-130
Dibromofluoromethane	100		100		70-130

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01,06 Batch: WG1151766-3 WG1151766-4								
Methylene chloride	118		116		70-130	2		30
1,1-Dichloroethane	121		122		70-130	1		30
Chloroform	116		116		70-130	0		30
Carbon tetrachloride	112		108		70-130	4		30
1,2-Dichloropropane	116		117		70-130	1		30
Dibromochloromethane	99		98		70-130	1		30
1,1,2-Trichloroethane	110		115		70-130	4		30
Tetrachloroethene	93		92		70-130	1		30
Chlorobenzene	93		93		70-130	0		30
Trichlorofluoromethane	108		100		70-139	8		30
1,2-Dichloroethane	128		126		70-130	2		30
1,1,1-Trichloroethane	114		114		70-130	0		30
Bromodichloromethane	116		116		70-130	0		30
trans-1,3-Dichloropropene	116		116		70-130	0		30
cis-1,3-Dichloropropene	114		119		70-130	4		30
1,1-Dichloropropene	107		108		70-130	1		30
Bromoform	109		113		70-130	4		30
1,1,2,2-Tetrachloroethane	111		114		70-130	3		30
Benzene	110		107		70-130	3		30
Toluene	97		102		70-130	5		30
Ethylbenzene	100		100		70-130	0		30
Chloromethane	105		104		52-130	1		30
Bromomethane	103		99		57-147	4		30

Lab Control Sample Analysis

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Project Number: 141.05051.010

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01,06 Batch: WG1151766-3 WG1151766-4								
Vinyl chloride	116		112		67-130	4		30
Chloroethane	137		121		50-151	12		30
1,1-Dichloroethene	102		106		65-135	4		30
trans-1,2-Dichloroethene	110		105		70-130	5		30
Trichloroethene	107		104		70-130	3		30
1,2-Dichlorobenzene	94		95		70-130	1		30
1,3-Dichlorobenzene	94		93		70-130	1		30
1,4-Dichlorobenzene	89		92		70-130	3		30
Methyl tert butyl ether	107		109		66-130	2		30
p/m-Xylene	97		97		70-130	0		30
o-Xylene	94		95		70-130	1		30
cis-1,2-Dichloroethene	105		104		70-130	1		30
Dibromomethane	108		111		70-130	3		30
1,2,3-Trichloropropane	115		119		68-130	3		30
Styrene	100		101		70-130	1		30
Dichlorodifluoromethane	89		84		30-146	6		30
Acetone	136		**146**	Q	54-140	7		30
Carbon disulfide	111		107		59-130	4		30
2-Butanone	84		97		70-130	14		30
4-Methyl-2-pentanone	107		105		70-130	2		30
2-Hexanone	99		105		70-130	6		30
Bromochloromethane	99		93		70-130	6		30
Tetrahydrofuran	119		125		66-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832546

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01,06 Batch: WG1151766-3 WG1151766-4								
2,2-Dichloropropane	125		124		70-130	1		30
1,2-Dibromoethane	103		102		70-130	1		30
1,1,1,2-Tetrachloroethane	100		100		70-130	0		30
Bromobenzene	94		93		70-130	1		30
n-Butylbenzene	105		109		70-130	4		30
sec-Butylbenzene	93		95		70-130	2		30
tert-Butylbenzene	86		88		70-130	2		30
1,3,5-Trichlorobenzene	99		98		70-139	1		30
o-Chlorotoluene	103		105		70-130	2		30
p-Chlorotoluene	103		104		70-130	1		30
1,2-Dibromo-3-chloropropane	109		103		68-130	6		30
Hexachlorobutadiene	120		124		67-130	3		30
Isopropylbenzene	91		92		70-130	1		30
p-Isopropyltoluene	87		90		70-130	3		30
Naphthalene	88		87		70-130	1		30
n-Propylbenzene	101		100		70-130	1		30
1,2,3-Trichlorobenzene	103		103		70-130	0		30
1,2,4-Trichlorobenzene	94		98		70-130	4		30
1,3,5-Trimethylbenzene	98		99		70-130	1		30
1,2,4-Trimethylbenzene	96		98		70-130	2		30
Ethyl ether	106		110		67-130	4		30
Isopropyl Ether	106		107		66-130	1		30
Tert-Butyl Alcohol	**136**	Q	**139**	Q	70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832546

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-5035 - Westborough Lab Associated sample(s): 01,06 Batch: WG1151766-3 WG1151766-4								
Ethyl-Tert-Butyl-Ether	107		106		70-130	1		30
Tertiary-Amyl Methyl Ether	104		105		70-130	1		30
1,4-Dioxane	110		117		65-136	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	120		120		70-130
Toluene-d8	98		100		70-130
4-Bromofluorobenzene	113		109		70-130
Dibromofluoromethane	104		105		70-130

SEMIVOLATILES

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-01
Client ID: B2-S4
Sample Location: JAFFREY, NH

Date Collected: 08/17/18 10:45
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 14:22
Analyst: SZ
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
Fluoranthene	ND		ug/kg	110	21.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
1-Methylnaphthalene	ND		ug/kg	180	21.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	76		30-120
4-Terphenyl-d14	79		18-120

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-02
Client ID: B3-S3
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 09:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 18:33
Analyst: SZ
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	380		ug/kg	150	19.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
Fluoranthene	4900		ug/kg	110	22.	1
Naphthalene	260		ug/kg	190	23.	1
Benzo(a)anthracene	2800		ug/kg	110	21.	1
Benzo(a)pyrene	2700		ug/kg	150	46.	1
Benzo(b)fluoranthene	3700		ug/kg	110	32.	1
Benzo(k)fluoranthene	1300		ug/kg	110	30.	1
Chrysene	2800		ug/kg	110	20.	1
Acenaphthylene	320		ug/kg	150	29.	1
Anthracene	940		ug/kg	110	36.	1
Benzo(ghi)perylene	1800		ug/kg	150	22.	1
Fluorene	410		ug/kg	190	18.	1
Phenanthrene	3500		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	480		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	1900		ug/kg	150	26.	1
Pyrene	4100		ug/kg	110	19.	1
1-Methylnaphthalene	120	J	ug/kg	190	22.	1
2-Methylnaphthalene	140	J	ug/kg	220	23.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	72		30-120
4-Terphenyl-d14	61		18-120

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-03
Client ID: B5-S3
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 12:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 18:58
Analyst: SZ
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	2200		ug/kg	150	20.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
Fluoranthene	9700	E	ug/kg	110	22.	1
Naphthalene	910		ug/kg	190	23.	1
Benzo(a)anthracene	4800		ug/kg	110	21.	1
Benzo(a)pyrene	3600		ug/kg	150	46.	1
Benzo(b)fluoranthene	4400		ug/kg	110	32.	1
Benzo(k)fluoranthene	1400		ug/kg	110	30.	1
Chrysene	4600		ug/kg	110	20.	1
Acenaphthylene	2700		ug/kg	150	29.	1
Anthracene	3800		ug/kg	110	37.	1
Benzo(ghi)perylene	2200		ug/kg	150	22.	1
Fluorene	3900		ug/kg	190	18.	1
Phenanthrene	12000	E	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	540		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	2300		ug/kg	150	26.	1
Pyrene	9300	E	ug/kg	110	19.	1
1-Methylnaphthalene	2600		ug/kg	190	22.	1
2-Methylnaphthalene	1900		ug/kg	230	23.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	72		30-120
4-Terphenyl-d14	62		18-120

Project Name: WW CROSS PROPERTY
Lab Number: L1832546
Project Number: 141.05051.010
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-03 D
Client ID: B5-S3
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 12:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/28/18 22:53
Analyst: ALS
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	14000		ug/kg	570	110	5
Phenanthrene	17000		ug/kg	570	120	5
Pyrene	14000		ug/kg	570	94.	5

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-04
Client ID: B6-S1
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 14:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 19:23
Analyst: SZ
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
Fluoranthene	51	J	ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	31	J	ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	27	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	53	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	39	J	ug/kg	120	20.	1
1-Methylnaphthalene	ND		ug/kg	200	23.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	77		30-120
4-Terphenyl-d14	62		18-120

Project Name: WW CROSS PROPERTY
Lab Number: L1832546
Project Number: 141.05051.010
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-05 D2
Client ID: B12-S2
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 14:45
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/28/18 23:19
Analyst: ALS
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	98000		ug/kg	2100	400	20
Phenanthrene	140000		ug/kg	2100	420	20
Pyrene	84000		ug/kg	2100	340	20

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-05 D
Client ID: B12-S2
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 14:45
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 19:48
Analyst: SZ
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	16000		ug/kg	1400	180	10
2-Chloronaphthalene	ND		ug/kg	1700	170	10
Fluoranthene	100000	E	ug/kg	1000	200	10
Naphthalene	14000		ug/kg	1700	210	10
Benzo(a)anthracene	43000		ug/kg	1000	200	10
Benzo(a)pyrene	26000		ug/kg	1400	420	10
Benzo(b)fluoranthene	37000		ug/kg	1000	290	10
Benzo(k)fluoranthene	13000		ug/kg	1000	280	10
Chrysene	40000		ug/kg	1000	180	10
Acenaphthylene	20000		ug/kg	1400	270	10
Anthracene	37000		ug/kg	1000	340	10
Benzo(ghi)perylene	17000		ug/kg	1400	200	10
Fluorene	34000		ug/kg	1700	170	10
Phenanthrene	140000	E	ug/kg	1000	210	10
Dibenzo(a,h)anthracene	4800		ug/kg	1000	200	10
Indeno(1,2,3-cd)pyrene	18000		ug/kg	1400	240	10
Pyrene	81000	E	ug/kg	1000	170	10
1-Methylnaphthalene	15000		ug/kg	1700	200	10
2-Methylnaphthalene	20000		ug/kg	2100	210	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	64		30-120
4-Terphenyl-d14	61		18-120

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-06
Client ID: B14-S2
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 15:30
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 14:47
Analyst: SZ
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
Fluoranthene	ND		ug/kg	100	20.	1
Naphthalene	ND		ug/kg	180	21.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
1-Methylnaphthalene	ND		ug/kg	180	20.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	72		30-120
4-Terphenyl-d14	68		18-120

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-07
Client ID: B15-S4
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 09:20
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 15:12
Analyst: SZ
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
Fluoranthene	ND		ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
1-Methylnaphthalene	ND		ug/kg	200	23.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	78		30-120
4-Terphenyl-d14	57		18-120

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-08
Client ID: B22-S2
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 11:30
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 17:43
Analyst: SZ
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
Fluoranthene	1100		ug/kg	110	22.	1
Naphthalene	42	J	ug/kg	190	23.	1
Benzo(a)anthracene	720		ug/kg	110	21.	1
Benzo(a)pyrene	790		ug/kg	150	46.	1
Benzo(b)fluoranthene	1000		ug/kg	110	32.	1
Benzo(k)fluoranthene	360		ug/kg	110	30.	1
Chrysene	700		ug/kg	110	20.	1
Acenaphthylene	210		ug/kg	150	29.	1
Anthracene	160		ug/kg	110	37.	1
Benzo(ghi)perylene	460		ug/kg	150	22.	1
Fluorene	36	J	ug/kg	190	18.	1
Phenanthrene	360		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	120		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	540		ug/kg	150	26.	1
Pyrene	980		ug/kg	110	19.	1
1-Methylnaphthalene	ND		ug/kg	190	22.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	63		30-120
4-Terphenyl-d14	51		18-120

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-09
Client ID: B26-S3
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 07:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 18:08
Analyst: SZ
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	900		ug/kg	180	23.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
Fluoranthene	13000	E	ug/kg	130	25.	1
Naphthalene	7800		ug/kg	220	27.	1
Benzo(a)anthracene	5100		ug/kg	130	25.	1
Benzo(a)pyrene	4000		ug/kg	180	54.	1
Benzo(b)fluoranthene	5300		ug/kg	130	37.	1
Benzo(k)fluoranthene	1900		ug/kg	130	35.	1
Chrysene	4800		ug/kg	130	23.	1
Acenaphthylene	2800		ug/kg	180	34.	1
Anthracene	3800		ug/kg	130	43.	1
Benzo(ghi)perylene	2500		ug/kg	180	26.	1
Fluorene	4300		ug/kg	220	21.	1
Phenanthrene	17000	E	ug/kg	130	27.	1
Dibenzo(a,h)anthracene	620		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	2600		ug/kg	180	31.	1
Pyrene	10000	E	ug/kg	130	22.	1
1-Methylnaphthalene	3500		ug/kg	220	26.	1
2-Methylnaphthalene	4400		ug/kg	260	27.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	54		30-120
4-Terphenyl-d14	44		18-120

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-09 D
Client ID: B26-S3
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 07:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/28/18 23:45
Analyst: ALS
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	16000		ug/kg	660	130	5
Phenanthrene	22000		ug/kg	660	130	5
Pyrene	13000		ug/kg	660	110	5

Project Name: WW CROSS PROPERTY
Lab Number: L1832546
Project Number: 141.05051.010
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-11 D2
Client ID: PAH+TPH-DUP
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 07:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/28/18 22:26
Analyst: ALS
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	28000		ug/kg	1300	240	10
Phenanthrene	41000		ug/kg	1300	260	10
Pyrene	24000		ug/kg	1300	210	10

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-11 D
Client ID: PAH+TPH-DUP
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 07:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/26/18 20:13
Analyst: SZ
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1800		ug/kg	340	44.	2
2-Chloronaphthalene	ND		ug/kg	420	42.	2
Fluoranthene	24000	E	ug/kg	250	48.	2
Naphthalene	15000		ug/kg	420	52.	2
Benzo(a)anthracene	9300		ug/kg	250	48.	2
Benzo(a)pyrene	6300		ug/kg	340	100	2
Benzo(b)fluoranthene	8500		ug/kg	250	71.	2
Benzo(k)fluoranthene	2900		ug/kg	250	68.	2
Chrysene	8900		ug/kg	250	44.	2
Acenaphthylene	5700		ug/kg	340	65.	2
Anthracene	7200		ug/kg	250	82.	2
Benzo(ghi)perylene	4000		ug/kg	340	50.	2
Fluorene	8600		ug/kg	420	41.	2
Phenanthrene	31000	E	ug/kg	250	51.	2
Dibenzo(a,h)anthracene	1000		ug/kg	250	49.	2
Indeno(1,2,3-cd)pyrene	4400		ug/kg	340	59.	2
Pyrene	19000	E	ug/kg	250	42.	2
1-Methylnaphthalene	7100		ug/kg	420	49.	2
2-Methylnaphthalene	8800		ug/kg	510	51.	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	70		30-120
4-Terphenyl-d14	63		18-120

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/26/18 13:07
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-09,11 Batch: WG1150482-1					
Acenaphthene	ND		ug/kg	130	17.
2-Chloronaphthalene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	97	18.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	39.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
1-Methylnaphthalene	ND		ug/kg	160	19.
2-Methylnaphthalene	ND		ug/kg	190	20.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	82		30-120
4-Terphenyl-d14	92		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832546

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09,11 Batch: WG1150482-2 WG1150482-3								
Acenaphthene	69		67		31-137	3		50
2-Chloronaphthalene	74		75		40-140	1		50
Fluoranthene	73		73		40-140	0		50
Naphthalene	65		65		40-140	0		50
Benzo(a)anthracene	66		66		40-140	0		50
Benzo(a)pyrene	71		74		40-140	4		50
Benzo(b)fluoranthene	70		73		40-140	4		50
Benzo(k)fluoranthene	73		73		40-140	0		50
Chrysene	69		68		40-140	1		50
Acenaphthylene	77		77		40-140	0		50
Anthracene	69		69		40-140	0		50
Benzo(ghi)perylene	67		70		40-140	4		50
Fluorene	72		71		40-140	1		50
Phenanthrene	68		67		40-140	1		50
Dibenzo(a,h)anthracene	68		70		40-140	3		50
Indeno(1,2,3-cd)pyrene	67		69		40-140	3		50
Pyrene	72		73		35-142	1		50
1-Methylnaphthalene	69		69		26-130	0		50
2-Methylnaphthalene	71		70		40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832546

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09,11 Batch: WG1150482-2 WG1150482-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	79		79		23-120
2-Fluorobiphenyl	79		78		30-120
4-Terphenyl-d14	80		80		18-120

PETROLEUM HYDROCARBONS

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-01
Client ID: B2-S4
Sample Location: JAFFREY, NH

Date Collected: 08/17/18 10:45
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 08/26/18 10:35
Analyst: MEO
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	36400	4180	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	65		40-140

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-02
Client ID: B3-S3
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 09:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 08/26/18 11:08
Analyst: MEO
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	324000		ug/kg	37500	4310	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	65		40-140

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-03
Client ID: B5-S3
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 12:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 08/26/18 11:41
Analyst: MEO
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	306000		ug/kg	36800	4240	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	66		40-140

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-04
Client ID: B6-S1
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 14:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 08/26/18 12:14
Analyst: MEO
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	19300	J	ug/kg	38500	4430	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	74		40-140

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-05 D
Client ID: B12-S2
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 14:45
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 08/29/18 14:16
Analyst: SC
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	4530000		ug/kg	350000	40300	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	94		40-140

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-06
Client ID: B14-S2
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 15:30
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 08/26/18 12:47
Analyst: MEO
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	6010	J	ug/kg	33600	3870	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	81		40-140

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-07
Client ID: B15-S4
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 09:20
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 08/26/18 13:19
Analyst: MEO
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	39000	4480	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	72		40-140

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-08
Client ID: B22-S2
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 11:30
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 08/26/18 13:52
Analyst: MEO
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	23600	J	ug/kg	38500	4420	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	70		40-140

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-09 D
Client ID: B26-S3
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 07:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 08/29/18 14:48
Analyst: SC
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	1750000		ug/kg	218000	25100	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	111		40-140

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-11
Client ID: PAH+TPH-DUP
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 07:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 08/26/18 14:58
Analyst: MEO
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 08/24/18 23:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	585000		ug/kg	40600	4660	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	77		40-140

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 08/24/18 09:12
Analyst: SR

Extraction Method: EPA 3546
Extraction Date: 08/24/18 02:31

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-09,11 Batch: WG1152125-1					
TPH	ND		ug/kg	32200	3710

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	85		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832546

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-09,11 Batch: WG1152125-2								
TPH	98		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	84				40-140

PCBS

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-16
Client ID: CS-2
Sample Location: JAFFREY, NH

Date Collected: 08/17/18 10:30
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8082A
Analytical Date: 08/27/18 16:43
Analyst: HT
Percent Solids: 97%

Extraction Method: EPA 3540C
Extraction Date: 08/23/18 11:10
Cleanup Method: EPA 3665A
Cleanup Date: 08/26/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/26/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	57.9	8.57	1	A
Aroclor 1221	ND		ug/kg	57.9	9.67	1	A
Aroclor 1232	ND		ug/kg	57.9	20.5	1	A
Aroclor 1242	ND		ug/kg	57.9	13.0	1	A
Aroclor 1248	ND		ug/kg	38.6	14.5	1	A
Aroclor 1254	ND		ug/kg	57.9	10.6	1	A
Aroclor 1260	ND		ug/kg	38.6	17.8	1	A
Aroclor 1262	ND		ug/kg	19.3	12.2	1	A
Aroclor 1268	ND		ug/kg	19.3	10.0	1	A
PCBs, Total	ND		ug/kg	19.3	8.57	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	51		30-150	A

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-17
Client ID: CS-8
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 08:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8082A
Analytical Date: 08/27/18 16:56
Analyst: HT
Percent Solids: 97%

Extraction Method: EPA 3540C
Extraction Date: 08/23/18 11:10
Cleanup Method: EPA 3665A
Cleanup Date: 08/26/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/26/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	53.0	7.84	1	A
Aroclor 1221	ND		ug/kg	53.0	8.85	1	A
Aroclor 1232	ND		ug/kg	53.0	18.7	1	A
Aroclor 1242	ND		ug/kg	53.0	11.9	1	A
Aroclor 1248	ND		ug/kg	35.3	13.2	1	A
Aroclor 1254	ND		ug/kg	53.0	9.67	1	A
Aroclor 1260	ND		ug/kg	35.3	16.3	1	A
Aroclor 1262	ND		ug/kg	17.7	11.2	1	A
Aroclor 1268	ND		ug/kg	17.7	9.15	1	A
PCBs, Total	ND		ug/kg	17.7	7.84	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	79		30-150	B
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	56		30-150	A

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/27/18 14:08
Analyst: HT

Extraction Method: EPA 3540C
Extraction Date: 08/23/18 11:10
Cleanup Method: EPA 3665A
Cleanup Date: 08/26/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/26/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 16-17 Batch: WG1149709-1						
Aroclor 1016	ND		ug/kg	56.1	8.30	A
Aroclor 1221	ND		ug/kg	56.1	9.36	A
Aroclor 1232	ND		ug/kg	56.1	19.8	A
Aroclor 1242	ND		ug/kg	56.1	12.6	A
Aroclor 1248	ND		ug/kg	37.4	14.0	A
Aroclor 1254	ND		ug/kg	56.1	10.2	A
Aroclor 1260	ND		ug/kg	37.4	17.3	A
Aroclor 1262	ND		ug/kg	18.7	11.9	A
Aroclor 1268	ND		ug/kg	18.7	9.68	A
PCBs, Total	ND		ug/kg	18.7	8.30	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	55		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832546

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 16-17 Batch: WG1149709-2 WG1149709-3									
Aroclor 1016	72		78		40-140	8		50	A
Aroclor 1260	60		66		40-140	10		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		75		30-150	B
Decachlorobiphenyl	61		67		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		72		30-150	A
Decachlorobiphenyl	55		61		30-150	A

METALS

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-16
Client ID: CS-2
Sample Location: JAFFREY, NH
Date Collected: 08/17/18 10:30
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	0.547	J	mg/kg	2.06	0.156	1	08/28/18 14:50	08/28/18 20:15	EPA 3050B	1,6010D	AB
Arsenic, Total	8.57		mg/kg	0.411	0.086	1	08/28/18 14:50	08/28/18 20:15	EPA 3050B	1,6010D	AB
Beryllium, Total	0.181	J	mg/kg	0.206	0.014	1	08/28/18 14:50	08/28/18 20:15	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.411	0.040	1	08/28/18 14:50	08/28/18 20:15	EPA 3050B	1,6010D	AB
Chromium, Total	11.9		mg/kg	0.411	0.040	1	08/28/18 14:50	08/28/18 20:15	EPA 3050B	1,6010D	AB
Copper, Total	16.1		mg/kg	0.411	0.106	1	08/28/18 14:50	08/28/18 20:15	EPA 3050B	1,6010D	AB
Lead, Total	4.51		mg/kg	2.06	0.110	1	08/28/18 14:50	08/28/18 20:15	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.065	0.014	1	08/25/18 07:00	08/28/18 14:57	EPA 7471B	1,7471B	MG
Nickel, Total	6.72		mg/kg	1.03	0.100	1	08/28/18 14:50	08/28/18 20:15	EPA 3050B	1,6010D	AB
Selenium, Total	0.193	J	mg/kg	0.822	0.106	1	08/28/18 14:50	08/28/18 20:15	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.411	0.116	1	08/28/18 14:50	08/28/18 20:15	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	0.822	0.129	1	08/28/18 14:50	08/28/18 20:15	EPA 3050B	1,6010D	AB
Zinc, Total	451		mg/kg	2.06	0.120	1	08/28/18 14:50	08/28/18 20:15	EPA 3050B	1,6010D	AB

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-17
Client ID: CS-8
Sample Location: JAFFREY, NH
Date Collected: 08/15/18 08:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	1.84	J	mg/kg	1.95	0.148	1	08/28/18 14:50	08/28/18 20:19	EPA 3050B	1,6010D	AB
Arsenic, Total	5.63		mg/kg	0.391	0.081	1	08/28/18 14:50	08/28/18 20:19	EPA 3050B	1,6010D	AB
Beryllium, Total	0.152	J	mg/kg	0.195	0.013	1	08/28/18 14:50	08/28/18 20:19	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.391	0.038	1	08/28/18 14:50	08/28/18 20:19	EPA 3050B	1,6010D	AB
Chromium, Total	24.5		mg/kg	0.391	0.038	1	08/28/18 14:50	08/28/18 20:19	EPA 3050B	1,6010D	AB
Copper, Total	21.7		mg/kg	0.391	0.101	1	08/28/18 14:50	08/28/18 20:19	EPA 3050B	1,6010D	AB
Lead, Total	6.86		mg/kg	1.95	0.105	1	08/28/18 14:50	08/28/18 20:19	EPA 3050B	1,6010D	AB
Mercury, Total	0.030	J	mg/kg	0.064	0.014	1	08/25/18 07:00	08/28/18 15:03	EPA 7471B	1,7471B	MG
Nickel, Total	11.0		mg/kg	0.977	0.095	1	08/28/18 14:50	08/28/18 20:19	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	0.781	0.101	1	08/28/18 14:50	08/28/18 20:19	EPA 3050B	1,6010D	AB
Silver, Total	0.543		mg/kg	0.391	0.110	1	08/28/18 14:50	08/28/18 20:19	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	0.781	0.123	1	08/28/18 14:50	08/28/18 20:19	EPA 3050B	1,6010D	AB
Zinc, Total	90.7		mg/kg	1.95	0.114	1	08/28/18 14:50	08/28/18 20:19	EPA 3050B	1,6010D	AB

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-19
Client ID: CS-17
Sample Location: JAFFREY, NH
Date Collected: 08/15/18 00:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	1.22	J	mg/kg	2.01	0.153	1	08/28/18 14:50	08/28/18 20:24	EPA 3050B	1,6010D	AB
Arsenic, Total	3.19		mg/kg	0.402	0.084	1	08/28/18 14:50	08/28/18 20:24	EPA 3050B	1,6010D	AB
Beryllium, Total	0.121	J	mg/kg	0.201	0.013	1	08/28/18 14:50	08/28/18 20:24	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.402	0.039	1	08/28/18 14:50	08/28/18 20:24	EPA 3050B	1,6010D	AB
Chromium, Total	23.3		mg/kg	0.402	0.039	1	08/28/18 14:50	08/28/18 20:24	EPA 3050B	1,6010D	AB
Copper, Total	13.0		mg/kg	0.402	0.104	1	08/28/18 14:50	08/28/18 20:24	EPA 3050B	1,6010D	AB
Lead, Total	27.2		mg/kg	2.01	0.108	1	08/28/18 14:50	08/28/18 20:24	EPA 3050B	1,6010D	AB
Mercury, Total	0.015	J	mg/kg	0.066	0.014	1	08/25/18 07:00	08/28/18 15:05	EPA 7471B	1,7471B	MG
Nickel, Total	7.85		mg/kg	1.01	0.097	1	08/28/18 14:50	08/28/18 20:24	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	0.805	0.104	1	08/28/18 14:50	08/28/18 20:24	EPA 3050B	1,6010D	AB
Silver, Total	0.797		mg/kg	0.402	0.114	1	08/28/18 14:50	08/28/18 20:24	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	0.805	0.127	1	08/28/18 14:50	08/28/18 20:24	EPA 3050B	1,6010D	AB
Zinc, Total	38.6		mg/kg	2.01	0.118	1	08/28/18 14:50	08/28/18 20:24	EPA 3050B	1,6010D	AB

Project Name: WW CROSS PROPERTY **Lab Number:** L1832546

Project Number: 141.05051.010 **Report Date:** 08/30/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 16-17,19 Batch: WG1150516-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	08/25/18 07:00	08/28/18 10:55	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 16-17,19 Batch: WG1151354-1										
Antimony, Total	ND		mg/kg	2.00	0.152	1	08/28/18 14:50	08/28/18 19:24	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	08/28/18 14:50	08/28/18 19:24	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/28/18 14:50	08/28/18 19:24	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/28/18 14:50	08/28/18 19:24	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/28/18 14:50	08/28/18 19:24	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	08/28/18 14:50	08/28/18 19:24	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	08/28/18 14:50	08/28/18 19:24	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/28/18 14:50	08/28/18 19:24	1,6010D	AB
Selenium, Total	0.112	J	mg/kg	0.800	0.103	1	08/28/18 14:50	08/28/18 19:24	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	08/28/18 14:50	08/28/18 19:24	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	08/28/18 14:50	08/28/18 19:24	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	08/28/18 14:50	08/28/18 19:24	1,6010D	AB

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832546

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 16-17,19 Batch: WG1150516-2 SRM Lot Number: D102-540								
Mercury, Total	108		-		65-134	-		
Total Metals - Mansfield Lab Associated sample(s): 16-17,19 Batch: WG1151354-2 SRM Lot Number: D102-540								
Antimony, Total	162		-		1-199	-		
Arsenic, Total	92		-		83-117	-		
Beryllium, Total	98		-		83-116	-		
Cadmium, Total	102		-		83-118	-		
Chromium, Total	93		-		83-117	-		
Copper, Total	93		-		84-116	-		
Lead, Total	92		-		82-118	-		
Nickel, Total	95		-		83-117	-		
Selenium, Total	95		-		79-121	-		
Silver, Total	92		-		80-120	-		
Thallium, Total	97		-		81-119	-		
Zinc, Total	93		-		81-118	-		

INORGANICS
&
MISCELLANEOUS

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-01
Client ID: B2-S4
Sample Location: JAFFREY, NH

Date Collected: 08/17/18 10:45
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.2		%	0.100	NA	1	-	08/20/18 21:52	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.23	1	08/22/18 14:40	08/23/18 11:45	1,9010C/9012B	LH

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-02
Client ID: B3-S3
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 09:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.9		%	0.100	NA	1	-	08/20/18 21:52	121,2540G	FN
Cyanide, Total	0.42	J	mg/kg	1.1	0.22	1	08/22/18 14:40	08/23/18 11:46	1,9010C/9012B	LH

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-03
Client ID: B5-S3
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 12:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	08/21/18 13:49	121,2540G	RI

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-04
Client ID: B6-S1
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 14:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.3		%	0.100	NA	1	-	08/20/18 21:52	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-05
Client ID: B12-S2
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 14:45
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.4		%	0.100	NA	1	-	08/20/18 21:52	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.0	0.21	1	08/22/18 14:40	08/23/18 11:50	1,9010C/9012B	LH

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-06
Client ID: B14-S2
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 15:30
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.0		%	0.100	NA	1	-	08/20/18 21:52	121,2540G	FN
Cyanide, Total	1.1		mg/kg	1.1	0.23	1	08/22/18 18:44	08/23/18 12:08	1,9010C/9012B	LH

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-07
Client ID: B15-S4
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 09:20
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.9		%	0.100	NA	1	-	08/20/18 21:52	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.24	1	08/22/18 18:44	08/23/18 12:09	1,9010C/9012B	LH

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-08
Client ID: B22-S2
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 11:30
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.9		%	0.100	NA	1	-	08/21/18 13:49	121,2540G	RI

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-09
Client ID: B26-S3
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 07:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.5		%	0.100	NA	1	-	08/20/18 21:52	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-11
Client ID: PAH+TPH-DUP
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 07:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.3		%	0.100	NA	1	-	08/21/18 13:49	121,2540G	RI

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-13
Client ID: VOC-DUP2
Sample Location: JAFFREY, NH

Date Collected: 08/17/18 10:45
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.1		%	0.100	NA	1	-	08/21/18 13:49	121,2540G	RI

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-16
Client ID: CS-2
Sample Location: JAFFREY, NH

Date Collected: 08/17/18 10:30
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.0		%	0.100	NA	1	-	08/20/18 21:52	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-17
Client ID: CS-8
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 08:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.4		%	0.100	NA	1	-	08/20/18 21:52	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-19
Client ID: CS-17
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 00:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.1		%	0.100	NA	1	-	08/20/18 21:52	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1832546-20
Client ID: B12-S4
Sample Location: JAFFREY, NH

Date Collected: 08/17/18 15:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.9		%	0.100	NA	1	-	08/21/18 13:49	121,2540G	RI

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1832546
Report Date: 08/30/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02,05 Batch: WG1149319-1										
Cyanide, Total	ND		mg/kg	0.94	0.20	1	08/22/18 14:40	08/23/18 11:41	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 06-07 Batch: WG1149421-1										
Cyanide, Total	ND		mg/kg	0.91	0.19	1	08/22/18 18:44	08/23/18 11:58	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832546

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02,05 Batch: WG1149319-2 WG1149319-3								
Cyanide, Total	**69**	Q	**75**	Q	80-120	6		35
General Chemistry - Westborough Lab Associated sample(s): 06-07 Batch: WG1149421-2 WG1149421-3								
Cyanide, Total	81		94		80-120	13		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1832546

Report Date: 08/30/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-07,09,16-17,19 QC Batch ID: WG1148594-1 QC Sample: L1832546-01 Client ID: B2-S4						
Solids, Total	90.2	91.1	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 03,08,11,13,20 QC Batch ID: WG1148899-1 QC Sample: L1832546-03 Client ID: B5-S3						
Solids, Total	87.6	89.0	%	2		20

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1832546-01A	Vial MeOH preserved	A	NA		2.3	Y	Absent		8260HLW-NH(14)
L1832546-01B	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-01C	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-01D	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		HOLD-METAL(180)
L1832546-01E	Glass 120ml/4oz unpreserved	A	NA		2.3	Y	Absent		TS(7)
L1832546-01F	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		TCN-9010(14),8270TCL-PAH(14),TPH-DRO-D(14)
L1832546-01G	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		TCN-9010(14),8270TCL-PAH(14),TPH-DRO-D(14)
L1832546-02A	Vial MeOH preserved	A	NA		2.3	Y	Absent		8260HLW-NH(14)
L1832546-02B	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-02C	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-02D	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		HOLD-METAL(180)
L1832546-02E	Glass 120ml/4oz unpreserved	A	NA		2.3	Y	Absent		TS(7)
L1832546-02F	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		TCN-9010(14),8270TCL-PAH(14),TPH-DRO-D(14)
L1832546-02G	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		TCN-9010(14),8270TCL-PAH(14),TPH-DRO-D(14)
L1832546-03A	Vial MeOH preserved	A	NA		2.3	Y	Absent		8260HLW-NH(14)
L1832546-03B	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-03C	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-03D	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		8270TCL-PAH(14),TS(7),HOLD-METAL(180),TPH-DRO-D(14)
L1832546-04A	Vial MeOH preserved	A	NA		2.3	Y	Absent		8260HLW-NH(14)
L1832546-04B	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-04C	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)

*Values in parentheses indicate holding time in days

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1832546-04D	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		HOLD-METAL(180)
L1832546-04E	Glass 120ml/4oz unpreserved	A	NA		2.3	Y	Absent		TS(7)
L1832546-04F	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		8270TCL-PAH(14),TPH-DRO-D(14)
L1832546-04G	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		8270TCL-PAH(14),TPH-DRO-D(14)
L1832546-05A	Vial MeOH preserved	A	NA		2.3	Y	Absent		8260HLW-NH(14)
L1832546-05B	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-05C	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-05D	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		HOLD-METAL(180)
L1832546-05E	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		TS(7)
L1832546-05F	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		TCN-9010(14),8270TCL-PAH(14),TPH-DRO-D(14)
L1832546-05G	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		TCN-9010(14),8270TCL-PAH(14),TPH-DRO-D(14)
L1832546-06A	Vial MeOH preserved	A	NA		2.3	Y	Absent		8260HLW-NH(14)
L1832546-06B	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-06C	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-06D	Glass 120ml/4oz unpreserved	A	NA		2.3	Y	Absent		TCN-9010(14),8270TCL-PAH(14),TS(7),HOLD-METAL(180),TPH-DRO-D(14)
L1832546-07A	Vial MeOH preserved	A	NA		2.3	Y	Absent		8260HLW-NH(14)
L1832546-07B	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-07C	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-07D	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		HOLD-METAL(180)
L1832546-07E	Glass 120ml/4oz unpreserved	A	NA		2.3	Y	Absent		TS(7)
L1832546-07F	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		TCN-9010(14),8270TCL-PAH(14),TPH-DRO-D(14)
L1832546-07G	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		TCN-9010(14),8270TCL-PAH(14),TPH-DRO-D(14)
L1832546-08A	Vial MeOH preserved	A	NA		2.3	Y	Absent		8260HLW-NH(14)
L1832546-08B	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-08C	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-08D	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		HOLD-METAL(180)
L1832546-08E	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		8270TCL-PAH(14),TS(7),TPH-DRO-D(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1832546-09A	Vial MeOH preserved	A	NA		2.3	Y	Absent		8260HLW-NH(14)
L1832546-09B	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-09C	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-09D	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		HOLD-METAL(180)
L1832546-09E	Glass 120ml/4oz unpreserved	A	NA		2.3	Y	Absent		TS(7)
L1832546-09F	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		8270TCL-PAH(14),TPH-DRO-D(14)
L1832546-09G	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		8270TCL-PAH(14),TPH-DRO-D(14)
L1832546-10A	Vial MeOH preserved	A	NA		2.3	Y	Absent		HOLD-8260HLW(14)
L1832546-10B	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	HOLD-8260HLW(14)
L1832546-10C	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	HOLD-8260HLW(14)
L1832546-10D	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		HOLD-WETCHEM()
L1832546-11A	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		8270TCL-PAH(14),TS(7),TPH-DRO-D(14)
L1832546-12A	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14)
L1832546-13A	Vial MeOH preserved	A	NA		2.3	Y	Absent		8260HLW-NH(14)
L1832546-13B	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-13C	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-13D	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1832546-14A	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		HOLD-WETCHEM(),HOLD-METAL(180)
L1832546-15A	Glass 120ml/4oz unpreserved	A	NA		2.3	Y	Absent		HOLD-WETCHEM()
L1832546-16D	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1832546-16E	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PCB-8082LL-CNCRT(14),TS(7)
L1832546-17D	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1832546-17E	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		PCB-8082LL-CNCRT(14),TS(7)
L1832546-18A	Vial MeOH preserved	A	NA		2.3	Y	Absent		8260HLW-NH(14)
L1832546-18B	Vial MeOH preserved	A	NA		2.3	Y	Absent		8260HLW-NH(14)

*Values in parentheses indicate holding time in days

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1832546
Report Date: 08/30/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1832546-19C	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1832546-19D	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		TS(7)
L1832546-19E	Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		TS(7)
L1832546-20A	Vial MeOH preserved	A	NA		2.3	Y	Absent		8260HLW-NH(14)
L1832546-20B	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-20C	Vial water preserved	A	NA		2.3	Y	Absent	18-AUG-18 02:53	8260HLW-NH(14)
L1832546-20D	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1832546
Project Number:	141.05051.010	**Report Date:**	08/30/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1832546
Project Number:	141.05051.010	**Report Date:**	08/30/18

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1832546
Project Number:	141.05051.010	**Report Date:**	08/30/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Serial_No:08301812:24

CHAIN OF CUSTODY

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ALPHA

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab:

ALPHA Job #:

Client Information

Client: Ransom Consulting Inc.
Address: 112 Corporate Drive
Portsmouth NH 0380[illegible]
Phone: 603-436-1490
Email: srickerich@ransomenv...

Project Information

Project Name: W W Cross Property
Project Location: Jaffrey NH
Project #: 141.05051.010
Project Manager: Steven Rickerich
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #: 11151

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program NHDES/USEPA Brownfields Criteria Per SSQAPP

Additional Project Information:

Matrix
X1 = Concrete *=HOLD Sample
HOLD all Samples Pending email from Ransom

ANALYSIS: VOC: ☒ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☐ PAH 8270; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☒ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint; TPH-DRO 8015C; Priority Pollutant Metals; Hexavalent Chromium; Cyanide 9012/9010

SAMPLE INFO — Filtration: ☐ Field ☐ Lab to do; Preservation: ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC 8260	SVOC PAH 8270	PCB	TPH-DRO 8015C	PP Metals	Hex Chrom	Cyanide	Sample Comments
	B2-S4	8-17-12	10:45	S	BAL	✓	✓	✓	*	*	✓		
	B3-S3	8-16-12	9:50	↓	↓	✓	✓	✓	*	*	✓		
	B5-S3	↓	12:00			✓	✓	✓					
	B6-S1	↓	14:00			✓	✓	✓	*	*			
	~~B10-S~~ BAL	~~8-17-12~~											
	B12-S2	↓	14:45			✓	✓	✓	*	*	✓		
	B14-S2	↓	15:30			✓	✓	✓	*	*	✓		
	B15-S4	8-16-12	9:20			✓	✓	✓	*	*	✓		
	B22-S2	↓	11:30	↓	↓	✓	✓	✓					
	~~B23-S~~ BAL	~~8-17-12~~											

	VOC	SVOC	PCB	TPH	Metals	Cr	CN
Container Type	V	A	A	A	A	A	A
Preservative	F/A	A	A	A	A	A	A

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	8/17/12	[illegible]	8/17/12 12:[illegible]

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO. 01-01 (rev. 12-Mar-2012)

Serial_No:08301812:24

CHAIN OF CUSTODY

PAGE 2 OF 3

ALPHA ANALYTICAL

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab:

ALPHA Job #:

Project Information

Project Name: WW Cross Property
Project Location: Jaffrey, NH
Project #: 1416.05051.010
Project Manager: Steven Rickerich
ALPHA Quote #:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #: 11151

Client Information

Client: Ransom Consulting Inc.
Address: 112 Corporate Dr
Portsmouth, NH 038..
Phone: 603-436-1490
Email: srickerich@ransomenv.com
bonnie.best@ransomenv.com

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES SW-TK Criteria Per SSQAPP

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Additional Project Information:

Matrix
X1 = Concrete
* = HOLD Sample
HOLD All Samples pending email from Ransom

ANALYSIS: VOC: ☐ 8260 ☐ 624 ☐ 524.2 | SVOC: ☐ ABN ☒ PAH | METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15 | METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13 | EPH: ☐ Ranges & Targets ☐ Ranges Only | VPH: ☐ Ranges & Targets ☐ Ranges Only | ☐ PCB ☐ PEST | TPH: ☐ Quant Only ☐ Fingerprint | TPH-DRO 8015 | Priority Pollutant Metals | Hexavalent Chromium | Cyanide 9010/9012

SAMPLE INFO: Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Analysis marks	Sample Comments	Total Bottles
	B24-S	8-17-18		S	KH			
	B25-S	↓						
	B26-S3	8-16-18	7:50			✓ ✓ (cols 1–2); ✓ * * (cols 9–11)		
	VOC-DUP		7:50			* (col 1)		
	PAH+TPH-DUP		7:50			✓ (col 2); ✓ (col 9)		
	PAH+TPH-DUP2	↓	12:00			* (col 2); * (col 9)		
	VOC-DUP2	8-17-18	10:45			✓ (col 1)		
	PPMetals-DUP		10:45			* (col 10)		
	HexCr-DUP		10:45	↓		* (col 11)		
	ZS-2	↓	10:37	X1	↓	✓ (col 8); ✓ (col 10)		

	VOC	SVOC	PCB	TPH	Metals	Hex Cr	Cyanide
Container Type	V	A	A	A	A	A	A
Preservative	F/A	A	A	A	A	A	A

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	8-17 [illegible]	[illegible]	[illegible]

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FORM NO: 01-01 (rev. 12-Mar-2012)

DRAFT

Serial_No:08301812:24

CHAIN OF CUSTODY

PAGE 3 OF 3

ALPHA ANALYTICAL

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab:

ALPHA Job #:

Client Information

Client: Ransom Consulting Inc.
Address: 112 Corporate Drive, Portsmouth, NH 03801
Phone: 603-436-1490
Email: srickerich@ransomenv.com

Project Information

Project Name: WW Cross Property
Project Location: Jaffrey NH
Project #: 141.05051.010
Project Manager: Steven Rickerich
ALPHA Quote #:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #: 1115

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets) Per
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES/EPA Brownfields Criteria SSQAPP

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

*= HOLD Sample

Additional Project Information:

Matrix X1 = Concrete

** : Sample omitted from prov. COC pickup

HOLD All samples pending email from Ransom

ANALYSIS

VOC: ☒ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☐ PAH 8270; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☒ PCB ☐ PEST Soxhlet 3540 8082; TPH: ☐ Quant Only ☐ Fingerprint; TPH-DRO 8015; Priority Pollutant Metals; Hexavalent Chromium; Cyanide 9010/9012

SAMPLE INFO: Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC 8260	PCB	Other analyses	Sample Comments
	ZS-8	3-15-13	13:50	X1	BAL		✓	✓	
	Trip Blank					✓			
	* ZS-17	3-15-13		X1	RAB			✓	
	B12-S4	3-17-13	15:00	S	BAL	✓	*	* * ✓ (BABS-2013)	

Container Type: V A A A A A A
Preservative: A A A A A A A A

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	3/18/13 14:20	[illegible]	3/18/13 14:20

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

CHAIN OF CUSTODY

PAGE 1 OF 3

Date Rec'd in Lab: 8/17/18

ALPHA Job #: L1832546

ALPHA ANALYTICAL
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Project Information
Project Name: W W Cross Property
Project Location: Jaffrey, NH
Project #: 141.05051.010
Project Manager: Steven Rickerich
ALPHA Quote #:

Client Information
Client: Ransom Consulting, Inc.
Address: 112 Corporate Drive, Portsmouth NH 03801
Phone: 603-436-1490
Email: srickerich@ransomenv.com

Report Information - Data Deliverables
☒ ADEx ☒ EMAIL

Billing Information
☒ Same as Client info PO #: 11151

Regulatory Requirements & Project Information Requirements
☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES/USEPA Brownfields Criteria Per SSQAPP

Turn-Around Time
☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due:

Additional Project Information:
Matrix
X1 = Concrete
HOLD all samples Pending email from Ransom

ANALYSIS: VOC: ☒ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☒ PAH 8270; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☒ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint; TPH-DRO 8015C; Priority Pollutant Metals; Hexavalent Chromium; Cyanide 9010C/9012

SAMPLE INFO — Filtration: ☐ Field ☐ Lab to do; Preservation: ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Sample Comments
32546 -01	B2-S4	8-17-18	10:45	S	BAB	
-02	B3-S3	8-16-18	9:50	S	BAB	
-03	B5-S3	8-16-18	12:00	S	BAB	
-04	B6-S1	8-16-18	14:00	S	BAB	
	~~B10-S~~ BAB	~~8-17-18~~				
05	B12-S2	8-16-18	14:45	S	BAB	
06	B14-S2	8-16-18	15:30	S	BAB	
07	B15-S4	8-16-18	9:20	S	BAB	
08	B22-S2	8-16-18	11:30	S	BAB	
	~~B23-S~~ BAB	~~8-17-18~~				

Container Type: V A A A A A A
Preservative: F/A A A A A A A

Container Type	Preservative
P= Plastic	A= None
A= Amber glass	B= HCl
V= Vial	C= HNO_3
G= Glass	D= H_2SO_4
B= Bacteria cup	E= NaOH
C= Cube	F= MeOH
O= Other	G= $NaHSO_4$
E= Encore	H = $Na_2S_2O_3$
D= BOD Bottle	I= Ascorbic Acid
	J = NH_4Cl
	K= Zn Acetate
	O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
B.A. B...	8-17/16:11	[signature] AAL	8/17/18 16:11
[signature] AAL	8/17/18 18:05	[signature]	8/17/18 [illegible]

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

CHAIN OF CUSTODY

PAGE 2 OF 3

Date Rec'd in Lab: 8/17/18

ALPHA Job #: L1832546

ALPHA ANALYTICAL
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Project Information

Project Name: WW Cross Property
Project Location: Jaffrey, NH
Project #: 141.05051.010
Project Manager: Steven Rickerich
ALPHA Quote #:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #: 11157

Client Information

Client: Ransom Consulting Inc.
Address: 112 Corporate Drive
Portsmouth, NH 03801
Phone: 603-436-1490
Email: srickerich@ransomenv.com
bonnie.best@ransomenv.com

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES/USEPA Brownfields Per SSQAPP

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Additional Project Information:
Matrix
X1 = Concrete
HOLD All Samples pending email from Ransom

ANALYSIS

- VOC: ☒ 8260 ☐ 624 ☐ 524.2
- SVOC: ☐ ABN ☒ PAH 8270
- METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15
- METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13
- EPH: ☐ Ranges & Targets ☐ Ranges Only
- VPH: ☐ Ranges & Targets ☐ Ranges Only
- ☒ PCB ☐ PEST Soxhlet Extract 3540
- TPH: ☐ Quant Only ☐ Fingerprint
- TPH-DRO 8015
- Priority Pollutant Metals
- ☒ Hexavalent Chromium
- Cyanide 9010/9012

SAMPLE INFO
Filtration ☐ Field ☐ Lab to do
Preservation ☐ Lab to do

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Sample Comments
	~~B24-S~~	~~8-17-18~~		~~S~~	~~BAB~~	
	~~B25-S~~					
32546-09	B26-S3	8-16-18	7:50			
10	VOC-DUP		7:50			
11	PAH+TPH-DUP		7:50			
12	PAH+TPH-DUP2	↓	12:00			
13	VOC-DUP2	8-17-18	10:45			
14	PPMetals-DUP		10:45			
15	HexCr-DUP		10:45	↓		
16	CS-2	↓	10:30	X1	↓	

Container Type: V A A A A A A
Preservative: F/A A A A A A A

Container Type	Preservative
P= Plastic	A= None
A= Amber glass	B= HCl
V= Vial	C= HNO_3
G= Glass	D= H_2SO_4
B= Bacteria cup	E= NaOH
C= Cube	F= MeOH
O= Other	G= $NaHSO_4$
E= Encore	H = $Na_2S_2O_3$
D= BOD Bottle	I= Ascorbic Acid
	J = NH_4Cl
	K= Zn Acetate
	O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8-17 [illegible]	[signature] AAL	8/17/18 16:11
[signature] AAL	8/17/18 18:05	[signature]	8/17/18 [illegible]

FORM NO: 01-01 (rev. 12-Mar-2012)

CHAIN OF CUSTODY

PAGE 3 OF 3

Date Rec'd in Lab: 8/17/18

ALPHA Job #: L1832546

ALPHA ANALYTICAL

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220

320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Project Information

Project Name: WW Cross Property

Project Location: Jaffrey NH

Project #: 141.05051.010

Project Manager: Steven Rickerich

ALPHA Quote #:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #: 11151

Client Information

Client: Ransom Consulting Inc.

Address: 112 Corporate Drive Portsmouth, NH 03801

Phone: 603-436-1490

Email: srickerich@ransomenv.com

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods

☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)

☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets) Per SSQAPP

☐ Yes ☐ No NPDES RGP

☒ Other State /Fed Program NHDES/USEPA Brownfields Criteria

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Additional Project Information:

Matrix ** = Sample omitted from

X1 = Concrete Prev. COC Pickup

HOLD All samples Pending email from Ransom

ANALYSIS: VOC: ☒ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☒ PAH 8270; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☒ PCB ☐ PEST Soxhlet 8082 Extraction 3540; TPH: ☐ Quant Only ☐ Fingerprint; TPH-DRO 8015 Priority Pollutant Metals; Hexavalent Chromium; Cyanide 9010C/9012B

SAMPLE INFO: Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Sample Comments	TOTAL # BOTTLES
32546 17	ZS-8	8-15-18	8:50	X1	BAB		
18	Trip Blank						
19	** ZS-17	8-15-18		X1	RAB		
20	B12-S4	8-17-18	15:00	S	BAB		

	VOC	SVOC					PCB					
Container Type	V	A					A		A	A	A	A
Preservative	F/A	A					A		A	A	A	A

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8-17-18 16:11	[signature] AAL	8/17/18 16:11
[signature] AAL 8/17/18	18:05	[signature]	8/17/18 18:05

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

ANALYTICAL REPORT

Lab Number:	L1834077
Client:	Ransom Consulting, Inc. 112 Corporate Drive Pease International Tradeport Portsmouth, NH 03801
ATTN:	Steve Rickerich
Phone:	(603) 436-1490
Project Name:	WW CROSS PROPERTY
Project Number:	141.05051.010
Report Date:	09/05/18

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1834077
Report Date: 09/05/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1834077-01	B1-S2	SOIL	JAFFREY, NH	08/15/18 15:15	08/16/18
L1834077-02	B9-S2	SOIL	JAFFREY, NH	08/15/18 13:30	08/16/18
L1834077-03	B13-S5	SOIL	JAFFREY, NH	08/15/18 09:40	08/16/18
L1834077-04	B16-S4	SOIL	JAFFREY, NH	08/15/18 14:45	08/16/18
L1834077-05	B17-S3	SOIL	JAFFREY, NH	08/15/18 12:30	08/16/18
L1834077-06	B18-S3	SOIL	JAFFREY, NH	08/15/18 16:05	08/16/18
L1834077-07	B19-S2	SOIL	JAFFREY, NH	08/15/18 16:45	08/16/18
L1834077-08	B6-S1	SOIL	JAFFREY, NH	08/16/18 14:00	08/17/18
L1834077-09	B12-S2	SOIL	JAFFREY, NH	08/16/18 14:45	08/17/18
L1834077-10	B14-S2	SOIL	JAFFREY, NH	08/16/18 15:30	08/17/18
L1834077-11	B15-S4	SOIL	JAFFREY, NH	08/16/18 09:20	08/17/18
L1834077-12	B26-S3	SOIL	JAFFREY, NH	08/16/18 07:50	08/17/18
L1834077-13	CANCEL	SOIL	JAFFREY, NH	08/15/18 15:15	08/16/18

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1834077
Report Date: 09/05/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: WW CROSS PROPERTY **Lab Number:** L1834077
Project Number: 141.05051.010 **Report Date:** 09/05/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 09/05/18

METALS

Project Name: WW CROSS PROPERTY
Lab Number: L1834077
Project Number: 141.05051.010
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-01
Client ID: B1-S2
Sample Location: JAFFREY, NH
Date Collected: 08/15/18 15:15
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	0.669	J	mg/kg	2.19	0.166	1	09/04/18 17:03	09/05/18 02:17	EPA 3050B	1,6010D	LC
Arsenic, Total	5.15		mg/kg	0.437	0.091	1	09/04/18 17:03	09/05/18 02:17	EPA 3050B	1,6010D	LC
Beryllium, Total	0.459		mg/kg	0.219	0.014	1	09/04/18 17:03	09/05/18 02:17	EPA 3050B	1,6010D	LC
Cadmium, Total	0.149	J	mg/kg	0.437	0.043	1	09/04/18 17:03	09/05/18 02:17	EPA 3050B	1,6010D	LC
Chromium, Total	4.10		mg/kg	0.437	0.042	1	09/04/18 17:03	09/05/18 02:17	EPA 3050B	1,6010D	LC
Copper, Total	6.06		mg/kg	0.437	0.113	1	09/04/18 17:03	09/05/18 02:17	EPA 3050B	1,6010D	LC
Lead, Total	3.21		mg/kg	2.19	0.117	1	09/04/18 17:03	09/05/18 02:17	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.069	0.015	1	09/01/18 10:00	09/04/18 13:59	EPA 7471B	1,7471B	BV
Nickel, Total	2.72		mg/kg	1.09	0.106	1	09/04/18 17:03	09/05/18 02:17	EPA 3050B	1,6010D	LC
Selenium, Total	0.201	J	mg/kg	0.875	0.113	1	09/04/18 17:03	09/05/18 02:17	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.437	0.124	1	09/04/18 17:03	09/05/18 02:17	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	0.875	0.138	1	09/04/18 17:03	09/05/18 02:17	EPA 3050B	1,6010D	LC
Zinc, Total	15.8		mg/kg	2.19	0.128	1	09/04/18 17:03	09/05/18 02:17	EPA 3050B	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1834077
Project Number: 141.05051.010
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-02
Client ID: B9-S2
Sample Location: JAFFREY, NH
Date Collected: 08/15/18 13:30
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	1.02	J	mg/kg	1.95	0.148	1	09/04/18 17:03	09/05/18 02:22	EPA 3050B	1,6010D	LC
Arsenic, Total	3.66		mg/kg	0.391	0.081	1	09/04/18 17:03	09/05/18 02:22	EPA 3050B	1,6010D	LC
Beryllium, Total	0.266		mg/kg	0.195	0.013	1	09/04/18 17:03	09/05/18 02:22	EPA 3050B	1,6010D	LC
Cadmium, Total	0.184	J	mg/kg	0.391	0.038	1	09/04/18 17:03	09/05/18 02:22	EPA 3050B	1,6010D	LC
Chromium, Total	7.91		mg/kg	0.391	0.038	1	09/04/18 17:03	09/05/18 02:22	EPA 3050B	1,6010D	LC
Copper, Total	7.04		mg/kg	0.391	0.101	1	09/04/18 17:03	09/05/18 02:22	EPA 3050B	1,6010D	LC
Lead, Total	2.56		mg/kg	1.95	0.105	1	09/04/18 17:03	09/05/18 02:22	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.065	0.014	1	09/01/18 10:00	09/04/18 14:01	EPA 7471B	1,7471B	BV
Nickel, Total	5.50		mg/kg	0.977	0.095	1	09/04/18 17:03	09/05/18 02:22	EPA 3050B	1,6010D	LC
Selenium, Total	0.340	J	mg/kg	0.781	0.101	1	09/04/18 17:03	09/05/18 02:22	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.391	0.110	1	09/04/18 17:03	09/05/18 02:22	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	0.781	0.123	1	09/04/18 17:03	09/05/18 02:22	EPA 3050B	1,6010D	LC
Zinc, Total	14.9		mg/kg	1.95	0.114	1	09/04/18 17:03	09/05/18 02:22	EPA 3050B	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1834077
Project Number: 141.05051.010
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-03
Client ID: B13-S5
Sample Location: JAFFREY, NH
Date Collected: 08/15/18 09:40
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	1.69	J	mg/kg	2.18	0.166	1	09/04/18 17:03	09/05/18 02:27	EPA 3050B	1,6010D	LC
Arsenic, Total	5.13		mg/kg	0.437	0.091	1	09/04/18 17:03	09/05/18 02:27	EPA 3050B	1,6010D	LC
Beryllium, Total	0.550		mg/kg	0.218	0.014	1	09/04/18 17:03	09/05/18 02:27	EPA 3050B	1,6010D	LC
Cadmium, Total	0.314	J	mg/kg	0.437	0.043	1	09/04/18 17:03	09/05/18 02:27	EPA 3050B	1,6010D	LC
Chromium, Total	12.2		mg/kg	0.437	0.042	1	09/04/18 17:03	09/05/18 02:27	EPA 3050B	1,6010D	LC
Copper, Total	10.8		mg/kg	0.437	0.113	1	09/04/18 17:03	09/05/18 02:27	EPA 3050B	1,6010D	LC
Lead, Total	4.26		mg/kg	2.18	0.117	1	09/04/18 17:03	09/05/18 02:27	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.071	0.015	1	09/01/18 10:00	09/04/18 14:03	EPA 7471B	1,7471B	BV
Nickel, Total	7.91		mg/kg	1.09	0.106	1	09/04/18 17:03	09/05/18 02:27	EPA 3050B	1,6010D	LC
Selenium, Total	0.271	J	mg/kg	0.873	0.113	1	09/04/18 17:03	09/05/18 02:27	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.437	0.124	1	09/04/18 17:03	09/05/18 02:27	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	0.873	0.138	1	09/04/18 17:03	09/05/18 02:27	EPA 3050B	1,6010D	LC
Zinc, Total	30.5		mg/kg	2.18	0.128	1	09/04/18 17:03	09/05/18 02:27	EPA 3050B	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1834077
Project Number: 141.05051.010
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-04
Client ID: B16-S4
Sample Location: JAFFREY, NH
Date Collected: 08/15/18 14:45
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	1.07	J	mg/kg	2.45	0.186	1	09/04/18 17:03	09/05/18 02:53	EPA 3050B	1,6010D	LC
Arsenic, Total	4.13		mg/kg	0.491	0.102	1	09/04/18 17:03	09/05/18 02:53	EPA 3050B	1,6010D	LC
Beryllium, Total	0.456		mg/kg	0.245	0.016	1	09/04/18 17:03	09/05/18 02:53	EPA 3050B	1,6010D	LC
Cadmium, Total	0.309	J	mg/kg	0.491	0.048	1	09/04/18 17:03	09/05/18 02:53	EPA 3050B	1,6010D	LC
Chromium, Total	9.26		mg/kg	0.491	0.047	1	09/04/18 17:03	09/05/18 02:53	EPA 3050B	1,6010D	LC
Copper, Total	6.60		mg/kg	0.491	0.127	1	09/04/18 17:03	09/05/18 02:53	EPA 3050B	1,6010D	LC
Lead, Total	2.95		mg/kg	2.45	0.132	1	09/04/18 17:03	09/05/18 02:53	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.078	0.017	1	09/01/18 10:00	09/04/18 14:04	EPA 7471B	1,7471B	BV
Nickel, Total	4.39		mg/kg	1.23	0.119	1	09/04/18 17:03	09/05/18 02:53	EPA 3050B	1,6010D	LC
Selenium, Total	0.446	J	mg/kg	0.981	0.127	1	09/04/18 17:03	09/05/18 02:53	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.491	0.139	1	09/04/18 17:03	09/05/18 02:53	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	0.981	0.154	1	09/04/18 17:03	09/05/18 02:53	EPA 3050B	1,6010D	LC
Zinc, Total	15.6		mg/kg	2.45	0.144	1	09/04/18 17:03	09/05/18 02:53	EPA 3050B	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1834077
Project Number: 141.05051.010
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-05
Client ID: B17-S3
Sample Location: JAFFREY, NH
Date Collected: 08/15/18 12:30
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	0.974	J	mg/kg	2.25	0.171	1	09/04/18 17:03	09/05/18 02:57	EPA 3050B	1,6010D	LC
Arsenic, Total	6.18		mg/kg	0.451	0.094	1	09/04/18 17:03	09/05/18 02:57	EPA 3050B	1,6010D	LC
Beryllium, Total	0.388		mg/kg	0.225	0.015	1	09/04/18 17:03	09/05/18 02:57	EPA 3050B	1,6010D	LC
Cadmium, Total	0.230	J	mg/kg	0.451	0.044	1	09/04/18 17:03	09/05/18 02:57	EPA 3050B	1,6010D	LC
Chromium, Total	7.52		mg/kg	0.451	0.043	1	09/04/18 17:03	09/05/18 02:57	EPA 3050B	1,6010D	LC
Copper, Total	33.8		mg/kg	0.451	0.116	1	09/04/18 17:03	09/05/18 02:57	EPA 3050B	1,6010D	LC
Lead, Total	3.26		mg/kg	2.25	0.121	1	09/04/18 17:03	09/05/18 02:57	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.072	0.015	1	09/01/18 10:00	09/04/18 14:06	EPA 7471B	1,7471B	BV
Nickel, Total	4.89		mg/kg	1.13	0.109	1	09/04/18 17:03	09/05/18 02:57	EPA 3050B	1,6010D	LC
Selenium, Total	0.388	J	mg/kg	0.902	0.116	1	09/04/18 17:03	09/05/18 02:57	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.451	0.128	1	09/04/18 17:03	09/05/18 02:57	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	0.902	0.142	1	09/04/18 17:03	09/05/18 02:57	EPA 3050B	1,6010D	LC
Zinc, Total	19.0		mg/kg	2.25	0.132	1	09/04/18 17:03	09/05/18 02:57	EPA 3050B	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1834077
Project Number: 141.05051.010
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-06
Client ID: B18-S3
Sample Location: JAFFREY, NH
Date Collected: 08/15/18 16:05
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	1.33	J	mg/kg	2.30	0.175	1	09/04/18 17:03	09/05/18 03:03	EPA 3050B	1,6010D	LC
Arsenic, Total	20.0		mg/kg	0.460	0.096	1	09/04/18 17:03	09/05/18 03:03	EPA 3050B	1,6010D	LC
Beryllium, Total	0.543		mg/kg	0.230	0.015	1	09/04/18 17:03	09/05/18 03:03	EPA 3050B	1,6010D	LC
Cadmium, Total	0.386	J	mg/kg	0.460	0.045	1	09/04/18 17:03	09/05/18 03:03	EPA 3050B	1,6010D	LC
Chromium, Total	12.4		mg/kg	0.460	0.044	1	09/04/18 17:03	09/05/18 03:03	EPA 3050B	1,6010D	LC
Copper, Total	8.42		mg/kg	0.460	0.119	1	09/04/18 17:03	09/05/18 03:03	EPA 3050B	1,6010D	LC
Lead, Total	3.48		mg/kg	2.30	0.123	1	09/04/18 17:03	09/05/18 03:03	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.074	0.016	1	09/01/18 10:00	09/04/18 14:12	EPA 7471B	1,7471B	BV
Nickel, Total	5.94		mg/kg	1.15	0.111	1	09/04/18 17:03	09/05/18 03:03	EPA 3050B	1,6010D	LC
Selenium, Total	0.566	J	mg/kg	0.920	0.119	1	09/04/18 17:03	09/05/18 03:03	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.460	0.130	1	09/04/18 17:03	09/05/18 03:03	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	0.920	0.145	1	09/04/18 17:03	09/05/18 03:03	EPA 3050B	1,6010D	LC
Zinc, Total	18.6		mg/kg	2.30	0.135	1	09/04/18 17:03	09/05/18 03:03	EPA 3050B	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1834077
Project Number: 141.05051.010
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-07
Client ID: B19-S2
Sample Location: JAFFREY, NH
Date Collected: 08/15/18 16:45
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	1.23	J	mg/kg	2.07	0.157	1	09/04/18 17:03	09/05/18 03:08	EPA 3050B	1,6010D	LC
Arsenic, Total	5.69		mg/kg	0.414	0.086	1	09/04/18 17:03	09/05/18 03:08	EPA 3050B	1,6010D	LC
Beryllium, Total	0.464		mg/kg	0.207	0.014	1	09/04/18 17:03	09/05/18 03:08	EPA 3050B	1,6010D	LC
Cadmium, Total	0.228	J	mg/kg	0.414	0.041	1	09/04/18 17:03	09/05/18 03:08	EPA 3050B	1,6010D	LC
Chromium, Total	9.38		mg/kg	0.414	0.040	1	09/04/18 17:03	09/05/18 03:08	EPA 3050B	1,6010D	LC
Copper, Total	9.92		mg/kg	0.414	0.107	1	09/04/18 17:03	09/05/18 03:08	EPA 3050B	1,6010D	LC
Lead, Total	3.77		mg/kg	2.07	0.111	1	09/04/18 17:03	09/05/18 03:08	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.068	0.014	1	09/01/18 10:00	09/04/18 14:14	EPA 7471B	1,7471B	BV
Nickel, Total	6.25		mg/kg	1.04	0.100	1	09/04/18 17:03	09/05/18 03:08	EPA 3050B	1,6010D	LC
Selenium, Total	0.360	J	mg/kg	0.829	0.107	1	09/04/18 17:03	09/05/18 03:08	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.414	0.117	1	09/04/18 17:03	09/05/18 03:08	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	0.829	0.130	1	09/04/18 17:03	09/05/18 03:08	EPA 3050B	1,6010D	LC
Zinc, Total	20.2		mg/kg	2.07	0.121	1	09/04/18 17:03	09/05/18 03:08	EPA 3050B	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1834077
Project Number: 141.05051.010
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-08
Client ID: B6-S1
Sample Location: JAFFREY, NH
Date Collected: 08/16/18 14:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	0.912	J	mg/kg	2.40	0.182	1	09/04/18 17:03	09/05/18 03:13	EPA 3050B	1,6010D	LC
Arsenic, Total	2.10		mg/kg	0.480	0.100	1	09/04/18 17:03	09/05/18 03:13	EPA 3050B	1,6010D	LC
Beryllium, Total	0.173	J	mg/kg	0.240	0.016	1	09/04/18 17:03	09/05/18 03:13	EPA 3050B	1,6010D	LC
Cadmium, Total	0.130	J	mg/kg	0.480	0.047	1	09/04/18 17:03	09/05/18 03:13	EPA 3050B	1,6010D	LC
Chromium, Total	5.79		mg/kg	0.480	0.046	1	09/04/18 17:03	09/05/18 03:13	EPA 3050B	1,6010D	LC
Copper, Total	4.22		mg/kg	0.480	0.124	1	09/04/18 17:03	09/05/18 03:13	EPA 3050B	1,6010D	LC
Lead, Total	3.48		mg/kg	2.40	0.129	1	09/04/18 17:03	09/05/18 03:13	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.077	0.016	1	09/01/18 10:00	09/04/18 14:16	EPA 7471B	1,7471B	BV
Nickel, Total	3.95		mg/kg	1.20	0.116	1	09/04/18 17:03	09/05/18 03:13	EPA 3050B	1,6010D	LC
Selenium, Total	0.403	J	mg/kg	0.960	0.124	1	09/04/18 17:03	09/05/18 03:13	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.480	0.136	1	09/04/18 17:03	09/05/18 03:13	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	0.960	0.151	1	09/04/18 17:03	09/05/18 03:13	EPA 3050B	1,6010D	LC
Zinc, Total	13.0		mg/kg	2.40	0.141	1	09/04/18 17:03	09/05/18 03:13	EPA 3050B	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1834077
Project Number: 141.05051.010
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-09
Client ID: B12-S2
Sample Location: JAFFREY, NH
Date Collected: 08/16/18 14:45
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	1.00	J	mg/kg	2.03	0.154	1	09/04/18 17:03	09/05/18 03:18	EPA 3050B	1,6010D	LC
Arsenic, Total	4.60		mg/kg	0.407	0.085	1	09/04/18 17:03	09/05/18 03:18	EPA 3050B	1,6010D	LC
Beryllium, Total	0.240		mg/kg	0.203	0.013	1	09/04/18 17:03	09/05/18 03:18	EPA 3050B	1,6010D	LC
Cadmium, Total	4.06		mg/kg	0.407	0.040	1	09/04/18 17:03	09/05/18 03:18	EPA 3050B	1,6010D	LC
Chromium, Total	8.96		mg/kg	0.407	0.039	1	09/04/18 17:03	09/05/18 03:18	EPA 3050B	1,6010D	LC
Copper, Total	6.42		mg/kg	0.407	0.105	1	09/04/18 17:03	09/05/18 03:18	EPA 3050B	1,6010D	LC
Lead, Total	6.43		mg/kg	2.03	0.109	1	09/04/18 17:03	09/05/18 03:18	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.068	0.014	1	09/01/18 10:00	09/04/18 14:17	EPA 7471B	1,7471B	BV
Nickel, Total	3.93		mg/kg	1.02	0.098	1	09/04/18 17:03	09/05/18 03:18	EPA 3050B	1,6010D	LC
Selenium, Total	0.289	J	mg/kg	0.814	0.105	1	09/04/18 17:03	09/05/18 03:18	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.407	0.115	1	09/04/18 17:03	09/05/18 03:18	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	0.814	0.128	1	09/04/18 17:03	09/05/18 03:18	EPA 3050B	1,6010D	LC
Zinc, Total	26.5		mg/kg	2.03	0.119	1	09/04/18 17:03	09/05/18 03:18	EPA 3050B	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1834077
Project Number: 141.05051.010
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-10
Client ID: B14-S2
Sample Location: JAFFREY, NH
Date Collected: 08/16/18 15:30
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	1.30	J	mg/kg	2.12	0.161	1	09/04/18 17:03	09/05/18 03:23	EPA 3050B	1,6010D	LC
Arsenic, Total	5.21		mg/kg	0.425	0.088	1	09/04/18 17:03	09/05/18 03:23	EPA 3050B	1,6010D	LC
Beryllium, Total	0.361		mg/kg	0.212	0.014	1	09/04/18 17:03	09/05/18 03:23	EPA 3050B	1,6010D	LC
Cadmium, Total	0.259	J	mg/kg	0.425	0.042	1	09/04/18 17:03	09/05/18 03:23	EPA 3050B	1,6010D	LC
Chromium, Total	11.3		mg/kg	0.425	0.041	1	09/04/18 17:03	09/05/18 03:23	EPA 3050B	1,6010D	LC
Copper, Total	9.71		mg/kg	0.425	0.110	1	09/04/18 17:03	09/05/18 03:23	EPA 3050B	1,6010D	LC
Lead, Total	5.08		mg/kg	2.12	0.114	1	09/04/18 17:03	09/05/18 03:23	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.068	0.014	1	09/01/18 10:00	09/04/18 14:19	EPA 7471B	1,7471B	BV
Nickel, Total	6.99		mg/kg	1.06	0.103	1	09/04/18 17:03	09/05/18 03:23	EPA 3050B	1,6010D	LC
Selenium, Total	0.476	J	mg/kg	0.849	0.110	1	09/04/18 17:03	09/05/18 03:23	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.425	0.120	1	09/04/18 17:03	09/05/18 03:23	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	0.849	0.134	1	09/04/18 17:03	09/05/18 03:23	EPA 3050B	1,6010D	LC
Zinc, Total	20.7		mg/kg	2.12	0.124	1	09/04/18 17:03	09/05/18 03:23	EPA 3050B	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1834077
Project Number: 141.05051.010
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-11
Client ID: B15-S4
Sample Location: JAFFREY, NH
Date Collected: 08/16/18 09:20
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	1.60	J	mg/kg	2.30	0.175	1	09/04/18 17:03	09/05/18 03:28	EPA 3050B	1,6010D	LC
Arsenic, Total	5.33		mg/kg	0.460	0.096	1	09/04/18 17:03	09/05/18 03:28	EPA 3050B	1,6010D	LC
Beryllium, Total	0.492		mg/kg	0.230	0.015	1	09/04/18 17:03	09/05/18 03:28	EPA 3050B	1,6010D	LC
Cadmium, Total	0.630		mg/kg	0.460	0.045	1	09/04/18 17:03	09/05/18 03:28	EPA 3050B	1,6010D	LC
Chromium, Total	10.1		mg/kg	0.460	0.044	1	09/04/18 17:03	09/05/18 03:28	EPA 3050B	1,6010D	LC
Copper, Total	31.2		mg/kg	0.460	0.119	1	09/04/18 17:03	09/05/18 03:28	EPA 3050B	1,6010D	LC
Lead, Total	3.46		mg/kg	2.30	0.123	1	09/04/18 17:03	09/05/18 03:28	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.077	0.016	1	09/01/18 10:00	09/04/18 14:21	EPA 7471B	1,7471B	BV
Nickel, Total	6.11		mg/kg	1.15	0.111	1	09/04/18 17:03	09/05/18 03:28	EPA 3050B	1,6010D	LC
Selenium, Total	0.902	J	mg/kg	0.920	0.119	1	09/04/18 17:03	09/05/18 03:28	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.460	0.130	1	09/04/18 17:03	09/05/18 03:28	EPA 3050B	1,6010D	LC
Thallium, Total	0.281	J	mg/kg	0.920	0.145	1	09/04/18 17:03	09/05/18 03:28	EPA 3050B	1,6010D	LC
Zinc, Total	15.6		mg/kg	2.30	0.135	1	09/04/18 17:03	09/05/18 03:28	EPA 3050B	1,6010D	LC

Project Name: WW CROSS PROPERTY
Lab Number: L1834077
Project Number: 141.05051.010
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-12
Client ID: B26-S3
Sample Location: JAFFREY, NH
Date Collected: 08/16/18 07:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	0.911	J	mg/kg	2.68	0.204	1	09/04/18 17:03	09/05/18 03:33	EPA 3050B	1,6010D	LC
Arsenic, Total	4.78		mg/kg	0.536	0.111	1	09/04/18 17:03	09/05/18 03:33	EPA 3050B	1,6010D	LC
Beryllium, Total	0.209	J	mg/kg	0.268	0.018	1	09/04/18 17:03	09/05/18 03:33	EPA 3050B	1,6010D	LC
Cadmium, Total	0.134	J	mg/kg	0.536	0.053	1	09/04/18 17:03	09/05/18 03:33	EPA 3050B	1,6010D	LC
Chromium, Total	7.66		mg/kg	0.536	0.052	1	09/04/18 17:03	09/05/18 03:33	EPA 3050B	1,6010D	LC
Copper, Total	4.85		mg/kg	0.536	0.138	1	09/04/18 17:03	09/05/18 03:33	EPA 3050B	1,6010D	LC
Lead, Total	3.74		mg/kg	2.68	0.144	1	09/04/18 17:03	09/05/18 03:33	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.085	0.018	1	09/01/18 10:00	09/04/18 14:23	EPA 7471B	1,7471B	BV
Nickel, Total	3.90		mg/kg	1.34	0.130	1	09/04/18 17:03	09/05/18 03:33	EPA 3050B	1,6010D	LC
Selenium, Total	0.488	J	mg/kg	1.07	0.138	1	09/04/18 17:03	09/05/18 03:33	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.536	0.152	1	09/04/18 17:03	09/05/18 03:33	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.07	0.169	1	09/04/18 17:03	09/05/18 03:33	EPA 3050B	1,6010D	LC
Zinc, Total	13.3		mg/kg	2.68	0.157	1	09/04/18 17:03	09/05/18 03:33	EPA 3050B	1,6010D	LC

Project Name: WW CROSS PROPERTY **Lab Number:** L1834077

Project Number: 141.05051.010 **Report Date:** 09/05/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-12 Batch: WG1152881-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	09/01/18 10:00	09/04/18 13:29	1,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-12 Batch: WG1153428-1										
Antimony, Total	0.176	J	mg/kg	2.00	0.152	1	09/04/18 17:03	09/04/18 23:41	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	09/04/18 17:03	09/04/18 23:41	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	09/04/18 17:03	09/04/18 23:41	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	09/04/18 17:03	09/04/18 23:41	1,6010D	LC
Chromium, Total	0.068	J	mg/kg	0.400	0.038	1	09/04/18 17:03	09/04/18 23:41	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	09/04/18 17:03	09/04/18 23:41	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	09/04/18 17:03	09/04/18 23:41	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	09/04/18 17:03	09/04/18 23:41	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	09/04/18 17:03	09/04/18 23:41	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	09/04/18 17:03	09/04/18 23:41	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	09/04/18 17:03	09/04/18 23:41	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	09/04/18 17:03	09/04/18 23:41	1,6010D	LC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1834077

Report Date: 09/05/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1152881-2 SRM Lot Number: D102-540								
Mercury, Total	104		-		65-134	-		
Total Metals - Mansfield Lab Associated sample(s): 01-12 Batch: WG1153428-2 SRM Lot Number: D102-540								
Antimony, Total	129		-		1-199	-		
Arsenic, Total	86		-		83-117	-		
Beryllium, Total	84		-		83-116	-		
Cadmium, Total	84		-		83-118	-		
Chromium, Total	86		-		83-117	-		
Copper, Total	88		-		84-116	-		
Lead, Total	82		-		82-118	-		
Nickel, Total	85		-		83-117	-		
Selenium, Total	90		-		79-121	-		
Silver, Total	90		-		80-120	-		
Thallium, Total	85		-		81-119	-		
Zinc, Total	82		-		81-118	-		

INORGANICS
&
MISCELLANEOUS

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1834077
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-01
Client ID: B1-S2
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 15:15
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	08/20/18 21:36	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1834077
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-02
Client ID: B9-S2
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 13:30
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.1		%	0.100	NA	1	-	08/20/18 21:36	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1834077
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-03
Client ID: B13-S5
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 09:40
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.3		%	0.100	NA	1	-	08/20/18 21:36	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1834077
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-04
Client ID: B16-S4
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 14:45
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.1		%	0.100	NA	1	-	08/21/18 15:26	121,2540G	RI

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1834077
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-05
Client ID: B17-S3
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 12:30
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	08/20/18 21:36	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1834077
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-06
Client ID: B18-S3
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 16:05
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	08/20/18 21:36	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1834077
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-07
Client ID: B19-S2
Sample Location: JAFFREY, NH

Date Collected: 08/15/18 16:45
Date Received: 08/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	08/20/18 21:36	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1834077
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-08
Client ID: B6-S1
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 14:00
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.3		%	0.100	NA	1	-	08/20/18 21:52	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1834077
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-09
Client ID: B12-S2
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 14:45
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.4		%	0.100	NA	1	-	08/20/18 21:52	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1834077
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-10
Client ID: B14-S2
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 15:30
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.0		%	0.100	NA	1	-	08/20/18 21:52	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1834077
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-11
Client ID: B15-S4
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 09:20
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.9		%	0.100	NA	1	-	08/20/18 21:52	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1834077
Report Date: 09/05/18

SAMPLE RESULTS

Lab ID: L1834077-12
Client ID: B26-S3
Sample Location: JAFFREY, NH

Date Collected: 08/16/18 07:50
Date Received: 08/17/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.5		%	0.100	NA	1	-	08/20/18 21:52	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1834077
Report Date: 09/05/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
A1	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1834077-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1834077-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1834077-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1834077-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1834077-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1834077-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1834077-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1834077-08A	Metals Only-Glass 60mL/2oz unpreserved	A1	NA		2.3	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1834077-09A	Metals Only-Glass 60mL/2oz unpreserved	A1	NA		2.3	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)

*Values in parentheses indicate holding time in days

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1834077
Report Date: 09/05/18

Container Information

Container ID	*Container Type*	*Cooler*	*Initial pH*	*Final pH*	*Temp deg C*	*Pres*	*Seal*	*Frozen Date/Time*	*Analysis(*)*
L1834077-10A	Metals Only-Glass 60mL/2oz unpreserved	A1	NA		2.3	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1834077-11A	Metals Only-Glass 60mL/2oz unpreserved	A1	NA		2.3	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1834077-12A	Metals Only-Glass 60mL/2oz unpreserved	A1	NA		2.3	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)

*Values in parentheses indicate holding time in days

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1834077
Project Number:	141.05051.010	**Report Date:**	09/05/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1834077
Project Number:	141.05051.010	**Report Date:**	09/05/18

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Serial_No:09051814:27
11834077- KB 8/29/18

CHAIN OF CUSTODY

PAGE 1 OF 3

ALPHA ANALYTICAL

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab: 8/14/18

ALPHA Job #: ~~L1832241~~

Project Information

Project Name: WW Cross Property
Project Location: Jaffrey, NH
Project #: 141.05051.010
Project Manager: Steven Rickerich
ALPHA Quote #:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #: 11151

Client Information

Client: Ransom Consulting, Inc.
Address: 112 Corporate Drive, Portsmouth NH 0380[1]
Phone: 603-436-1490
Email: s.rickerich@ransomenv.com, bonnie.best@ransomenv.com

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods
☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES & USEPA Brownfields Criteria Per SSQAPP

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due:

Additional Project Information:
Matrix X1 = Concrete
HOLD All samples pending email from Ransom

Analysis

Analysis columns: VOC: ☒ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☒ PAH 8270; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☒ PCB ☐ PEST Synthetic SPLP 8082 Extraction; TPH: ☐ Quant Only ☐ Fingerprint; TPH-DRO 8015; Priority Pollutant Metals; Hexavalent Chromium; Cyanide 9012/9012B

SAMPLE INFO — Filtration: ☐ Field ☐ Lab to do; Preservation: ☐ Lab to do

	ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC	SVOC	METALS	METALS	EPH	VPH	PCB	TPH	TPH-DRO 8015	Priority Pollutant Metals	Hexavalent Chromium	Cyanide			Sample Comments	Total # Bottles
01	~~32241-01~~	B1-S2	8-15-18	15:15	S	BAB										X						
	-02	B1-S4	↓	15:30	↓	↓																
	-03	B4-S3		11:20																		
	-04	B8-S1		9:50																		
02	-05	B9-S2		13:30												X						
	-06	B11-S1		14:10																		
03	-07	B13-S5		9:40												X						
04	-08	B16-S4		14:45												X						
05	-09	B17-S3		12:30												X						
06	-10	B18-S3	↓	16:05	↓	↓										X						
						Container Type	V	A					A		A	A	A	A				
						Preservative	F/A	A					A		A	A	A	A				

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8/16/18 14:56	[signature] AAL	8-16-18 14:56
[signature] AAL	8-16-18 17:00	[signature]	8/16/18 17:00

FORM NO: 01-01 (rev. 12-Mar-2012)

CHAIN OF CUSTODY

PAGE 2 OF 3

ALPHA ANALYTICAL

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab: 8/16/18

ALPHA Job #: ~~L1832241~~

Project Information

Project Name: WW Cross Property
Project Location: Jaffrey NH
Project #: 141.05051.010
Project Manager: Steven Rickerich
ALPHA Quote #:

Client Information

Client: Ransom Consulting Inc.
Address: 112 Corporate Drive Portsmouth NH 03801
Phone: 603-436-1490
Email: srickerich@ransomenv.com bonnie.best@ransomenv.com

Report Information - Data Deliverables

☐ ADEx ☒ EMAIL

Billing Information

☐ Same as Client info PO #: 11151

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES+USEPA Brownfields Criteria Per SSQAPP

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due:

Additional Project Information:
Matrix
X1 = Concrete
HOLD All Samples Pending email from Ransom

ANALYSIS: VOC: ☒ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☒ PAH 8270; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☒ PCB ☐ PEST Soxhlet 3082 Extraction; TPH: ☐ Quant Only ☐ Fingerprint; TPH-DRO 8015; Priority Pollutant Metals; Hexavalent Chromium; Cyanide 9010C/9012B

SAMPLE INFO: Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Sample Comments	TOTAL # BOTTLES
07 ~~32241~~-11	B19-S2	8/15/18	16:45	S	BAB		
-12	B20-S3	↓	11:55	↓	↓		
-13	B21-S4	↓	10:30	↓	↓		
-14	CS-1	↓	15:05	X1	BAB		
-15	CS-9	↓	13:25	↓	↓		
-16	CS-16	↓	14:30	↓	↓		
-17	CS-17	↓	12:20	↓	↓		
-18	CS-18	↓	15:50	↓	↓		
-19	CS-19	↓	16:30	↓	↓		
-20	CS-DUP1	↓	13:25	↓	↓		

X

Container Type: V A A A A A A
Preservative: F/A A A A A A A

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
S. [illegible] BAB	8/16/18 14:56	J Rang AAL	8-16-18 14:56
[illegible] AAL	8-16-18 17:00	[illegible]	8/16/18 17:00

FORM NO: 01-01 (rev. 12-Mar-2012)

CHAIN OF CUSTODY

PAGE 1 OF 3

Date Rec'd in Lab: 8/17/18

ALPHA Job #: ~~L1832546~~

ALPHA

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Project Information

Project Name: W W Cross Property
Project Location: Jaffrey, NH
Project #: 141.05051.010
Project Manager: Steven Rickerich
ALPHA Quote #:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #: 11151

Client Information

Client: Ransom Consulting, Inc.
Address: 112 Corporate Drive Portsmouth NH 03801
Phone: 603-436-1490
Email: srickerich@ransomenv.com

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES/USEPA Brownfields Criteria Per SSQAPP

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Additional Project Information:
Matrix
X1 = Concrete
HOLD all Samples Pending email from Ransom

ANALYSIS: VOC: ☒ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☒ PAH 8270; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☒ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint; TPH-DRO 8015C; Priority Pollutant Metals; Hexavalent Chromium; Cyanide 9010C/9012B

SAMPLE INFO — Filtration: ☐ Field ☐ Lab to do; Preservation: ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Analysis mark	Sample Comments
~~32546-01~~	B2-S4	8-17-18	10:45	S	BAB		
-02	B3-S3	8-16-18	9:50	↓	↓		
-03	B5-S3	↓	12:00				
08 -04	B6-S1		14:00			X	
	~~B10-S~~ BAB	~~8-17-18~~					
09 05	B12-S2	↓	14:45			X	
10 06	B14-S2		15:30			X	
11 07	B15-S4	8-16-18	9:20			X	
08	B22-S2	↓	11:30				
	~~B23-S~~ BAB	~~8-17-18~~		↓	↓		

Container Type	V	A	A	A	A	A	A
Preservative	B/A	A	A	A	A	A	A

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8/17/18 16:11	[signature] AAL	8/17/18 16:11
[signature] AAL	8/17/18 18:05	[signature]	8/17/18 [illegible]

Serial_No:09051814:27
L1834077 KB 8/29/18

CHAIN OF CUSTODY

PAGE 2 OF 3

ALPHA ANALYTICAL

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab: 8/17/18

ALPHA Job #: L1832546

Project Information

Project Name: WW Cross Property
Project Location: Jaffrey, NH
Project #: 141.05051.010
Project Manager: Steven Rickerich
ALPHA Quote #:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #: 11157

Client Information

Client: Ransom Consulting Inc.
Address: 112 Corporate Drive Portsmouth, NH 03801
Phone: 603-436-1490
Email: srickerich@ransomenv.com bonnie.best@ransomenv.com

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods
☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☒ Other State /Fed Program NHDES/USEPA Brownfields Per SSQAPP

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Additional Project Information:
Matrix
X1 = Concrete
HOLD All Samples pending email from Ransom

ANALYSIS: VOC: ☒ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☒ PAH 8270; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☒ PCB ☐ PEST Soxhlet 3540 Extraction; TPH: ☐ Quant Only ☐ Fingerprint; TPH-DRO 8015; Priority Pollutant Metals; ☒ Hexavalent Chromium; Cyanide 9010/9012

SAMPLE INFO — Filtration: ☐ Field ☐ Lab to do; Preservation: ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Sample Comments	TOTAL # BOTTLES
	~~B24-S~~	~~8-17-18~~		~~S~~	~~BAB~~		
	~~B25-S~~						
12 ~~32546-0~~	B26-S3	8-16-18	7:50			X	
10	VOC-DUP		7:50				
11	PAH+TPH-DUP		7:50				
12	PAH+TPH-DUP2		12:00				
13	VOC-DUP2	8-17-18	10:45				
14	PPMetals-DUP		10:45				
15	HexCr-DUP		10:45	S			
16	CS-2		10:30	X1			

	VOC	SVOC	METALS	METALS	EPH	VPH	PCB	TPH	TPH-DRO	PP Metals	HexCr	Cyanide
Container Type	V	A					A		A	A	A	A
Preservative	F/A	A					A		A	A	A	A

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	8-17-18 10:11	[illegible] AAL	8/17/18 16:11
[illegible] AAL	8/17/18 18:05	[illegible]	8/17/18 [illegible]

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

DRAFT

ANALYTICAL REPORT

Lab Number:	L1836586
Client:	Ransom Consulting, Inc. 112 Corporate Drive Pease International Tradeport Portsmouth, NH 03801
ATTN:	Steve Rickerich
Phone:	(603) 436-1490
Project Name:	WW CROSS PROPERTY
Project Number:	141.05051.010
Report Date:	09/25/18

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1836586
Report Date: 09/25/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1836586-01	B-23	SOIL	JAFFREY, NH	09/13/18 11:30	09/14/18
L1836586-02	B-24	SOIL	JAFFREY, NH	09/06/18 09:50	09/14/18
L1836586-03	B-25	SOIL	JAFFREY, NH	09/06/18 10:10	09/14/18
L1836586-04	TRIP BLANK	SOIL	JAFFREY, NH	09/06/18 00:00	09/14/18

Project Name: WW CROSS PROPERTY **Lab Number:** L1836586
Project Number: 141.05051.010 **Report Date:** 09/25/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: WW CROSS PROPERTY **Lab Number:** L1836586
Project Number: 141.05051.010 **Report Date:** 09/25/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

The WG1159767-3 MS recovery, performed on L1836586-01, is outside the acceptance criteria for thallium (73%). A post digestion spike was performed and was within acceptance criteria.

The WG1159767-3 MS recovery for zinc (153%), performed on L1836586-01, does not apply because the sample concentration is greater than four times the spike amount added.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 09/25/18

ORGANICS

SEMIVOLATILES

Project Name: WW CROSS PROPERTY
Lab Number: L1836586
Project Number: 141.05051.010
Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836586-01
Client ID: B-23
Sample Location: JAFFREY, NH

Date Collected: 09/13/18 11:30
Date Received: 09/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/25/18 01:55
Analyst: HL
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 09/17/18 10:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	610		ug/kg	150	20.	1
2-Chloronaphthalene	110	J	ug/kg	190	19.	1
Fluoranthene	5800	E	ug/kg	110	22.	1
Naphthalene	1100		ug/kg	190	23.	1
Benzo(a)anthracene	3600		ug/kg	110	21.	1
Benzo(a)pyrene	3200		ug/kg	150	46.	1
Benzo(b)fluoranthene	4500		ug/kg	110	32.	1
Benzo(k)fluoranthene	1300		ug/kg	110	30.	1
Chrysene	3400		ug/kg	110	20.	1
Acenaphthylene	740		ug/kg	150	29.	1
Anthracene	1400		ug/kg	110	37.	1
Benzo(ghi)perylene	2600		ug/kg	150	22.	1
Fluorene	580		ug/kg	190	18.	1
Phenanthrene	4700		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	560		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	2800		ug/kg	150	26.	1
Pyrene	5100		ug/kg	110	19.	1
1-Methylnaphthalene	530		ug/kg	190	22.	1
2-Methylnaphthalene	560		ug/kg	230	23.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	70		30-120
4-Terphenyl-d14	58		18-120

Project Name: WW CROSS PROPERTY
Lab Number: L1836586
Project Number: 141.05051.010
Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836586-01 D
Client ID: B-23
Sample Location: JAFFREY, NH

Date Collected: 09/13/18 11:30
Date Received: 09/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/25/18 13:22
Analyst: JG
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 09/17/18 10:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	6900		ug/kg	570	110	5

Project Name: WW CROSS PROPERTY
Lab Number: L1836586
Project Number: 141.05051.010
Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836586-02
Client ID: B-24
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 09:50
Date Received: 09/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/25/18 02:19
Analyst: HL
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 09/17/18 10:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	430		ug/kg	140	19.	1
2-Chloronaphthalene	22	J	ug/kg	180	18.	1
Fluoranthene	7600	E	ug/kg	110	21.	1
Naphthalene	880		ug/kg	180	22.	1
Benzo(a)anthracene	4200		ug/kg	110	20.	1
Benzo(a)pyrene	2600		ug/kg	140	44.	1
Benzo(b)fluoranthene	4900		ug/kg	110	30.	1
Benzo(k)fluoranthene	1600		ug/kg	110	29.	1
Chrysene	4400		ug/kg	110	19.	1
Acenaphthylene	1000		ug/kg	140	28.	1
Anthracene	1700		ug/kg	110	35.	1
Benzo(ghi)perylene	1600		ug/kg	140	21.	1
Fluorene	460		ug/kg	180	17.	1
Phenanthrene	3800		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	480		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	2000		ug/kg	140	25.	1
Pyrene	6100	E	ug/kg	110	18.	1
1-Methylnaphthalene	380		ug/kg	180	21.	1
2-Methylnaphthalene	430		ug/kg	220	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	69		30-120
4-Terphenyl-d14	45		18-120

Project Name: WW CROSS PROPERTY
Lab Number: L1836586
Project Number: 141.05051.010
Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836586-02 D
Client ID: B-24
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 09:50
Date Received: 09/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/25/18 13:46
Analyst: JG
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 09/17/18 10:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	10000		ug/kg	540	100	5
Pyrene	8400		ug/kg	540	89.	5

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1836586
Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836586-03 D2
Client ID: B-25
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 10:10
Date Received: 09/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/25/18 16:11
Analyst: JG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 09/17/18 10:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	76000		ug/kg	2200	420	20
Phenanthrene	77000		ug/kg	2200	440	20

Project Name: WW CROSS PROPERTY
Lab Number: L1836586
Project Number: 141.05051.010
Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836586-03 D
Client ID: B-25
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 10:10
Date Received: 09/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/25/18 14:10
Analyst: JG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 09/17/18 10:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	9100		ug/kg	1400	190	10
2-Chloronaphthalene	470	J	ug/kg	1800	180	10
Fluoranthene	61000	E	ug/kg	1100	210	10
Naphthalene	15000		ug/kg	1800	220	10
Benzo(a)anthracene	34000		ug/kg	1100	200	10
Benzo(a)pyrene	22000		ug/kg	1400	440	10
Benzo(b)fluoranthene	36000		ug/kg	1100	300	10
Benzo(k)fluoranthene	11000		ug/kg	1100	290	10
Chrysene	32000		ug/kg	1100	190	10
Acenaphthylene	1900		ug/kg	1400	280	10
Anthracene	18000		ug/kg	1100	350	10
Benzo(ghi)perylene	14000		ug/kg	1400	210	10
Fluorene	11000		ug/kg	1800	180	10
Phenanthrene	63000	E	ug/kg	1100	220	10
Dibenzo(a,h)anthracene	4300		ug/kg	1100	210	10
Indeno(1,2,3-cd)pyrene	16000		ug/kg	1400	250	10
Pyrene	47000		ug/kg	1100	180	10
1-Methylnaphthalene	4400		ug/kg	1800	210	10
2-Methylnaphthalene	5800		ug/kg	2200	220	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	61		30-120
4-Terphenyl-d14	46		18-120

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1836586
Report Date: 09/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/24/18 16:48
Analyst: HL

Extraction Method: EPA 3546
Extraction Date: 09/17/18 10:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1157650-1					
Acenaphthene	ND		ug/kg	130	17.
2-Chloronaphthalene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
1-Methylnaphthalene	ND		ug/kg	160	19.
2-Methylnaphthalene	ND		ug/kg	200	20.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	72		30-120
4-Terphenyl-d14	78		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1836586

Report Date: 09/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1157650-2 WG1157650-3								
Acenaphthene	75		81		31-137	8		50
2-Chloronaphthalene	72		79		40-140	9		50
Fluoranthene	80		86		40-140	7		50
Naphthalene	72		77		40-140	7		50
Benzo(a)anthracene	78		82		40-140	5		50
Benzo(a)pyrene	79		81		40-140	3		50
Benzo(b)fluoranthene	78		79		40-140	1		50
Benzo(k)fluoranthene	80		81		40-140	1		50
Chrysene	76		83		40-140	9		50
Acenaphthylene	76		83		40-140	9		50
Anthracene	78		85		40-140	9		50
Benzo(ghi)perylene	80		85		40-140	6		50
Fluorene	78		84		40-140	7		50
Phenanthrene	75		81		40-140	8		50
Dibenzo(a,h)anthracene	80		84		40-140	5		50
Indeno(1,2,3-cd)pyrene	78		84		40-140	7		50
Pyrene	79		86		35-142	8		50
1-Methylnaphthalene	77		82		26-130	6		50
2-Methylnaphthalene	72		78		40-140	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1836586

Report Date: 09/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1157650-2 WG1157650-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	91		91		23-120
2-Fluorobiphenyl	72		81		30-120
4-Terphenyl-d14	74		78		18-120

PETROLEUM HYDROCARBONS

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010
Lab Number: L1836586
Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836586-01 D
Client ID: B-23
Sample Location: JAFFREY, NH

Date Collected: 09/13/18 11:30
Date Received: 09/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 09/17/18 16:35
Analyst: MEO
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 09/17/18 08:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	565000		ug/kg	188000	21700	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	84		40-140

Project Name: WW CROSS PROPERTY
Lab Number: L1836586
Project Number: 141.05051.010
Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836586-02
Client ID: B-24
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 09:50
Date Received: 09/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 09/17/18 17:07
Analyst: MEO
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 09/17/18 08:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	222000		ug/kg	35200	4040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	69		40-140

Project Name: WW CROSS PROPERTY
Lab Number: L1836586
Project Number: 141.05051.010
Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836586-03 D
Client ID: B-25
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 10:10
Date Received: 09/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 09/23/18 09:09
Analyst: MEO
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 09/17/18 08:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	2610000		ug/kg	362000	41600	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	71		40-140

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1836586
Report Date: 09/25/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 09/17/18 01:05
Analyst: LL

Extraction Method: EPA 3546
Extraction Date: 09/16/18 13:52

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-03 Batch: WG1157429-1					
TPH	ND		ug/kg	31600	3630

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	91		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1836586

Report Date: 09/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-03 Batch: WG1157429-2								
TPH	83		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	80				40-140

METALS

Project Name: WW CROSS PROPERTY
Lab Number: L1836586
Project Number: 141.05051.010
Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836586-01
Client ID: B-23
Sample Location: JAFFREY, NH
Date Collected: 09/13/18 11:30
Date Received: 09/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	0.668	J	mg/kg	2.26	0.171	1	09/22/18 16:04	09/23/18 10:07	EPA 3050B	1,6010D	PE
Arsenic, Total	5.50		mg/kg	0.451	0.094	1	09/22/18 16:04	09/23/18 10:07	EPA 3050B	1,6010D	PE
Beryllium, Total	0.171	J	mg/kg	0.226	0.015	1	09/22/18 16:04	09/23/18 10:07	EPA 3050B	1,6010D	PE
Cadmium, Total	2.55		mg/kg	0.451	0.044	1	09/22/18 16:04	09/23/18 10:07	EPA 3050B	1,6010D	PE
Chromium, Total	10.9		mg/kg	0.451	0.043	1	09/22/18 16:04	09/23/18 10:07	EPA 3050B	1,6010D	PE
Copper, Total	122		mg/kg	0.451	0.116	1	09/22/18 16:04	09/23/18 10:07	EPA 3050B	1,6010D	PE
Lead, Total	150		mg/kg	2.26	0.121	1	09/22/18 16:04	09/23/18 10:07	EPA 3050B	1,6010D	PE
Mercury, Total	0.161		mg/kg	0.073	0.015	1	09/22/18 10:00	09/24/18 12:53	EPA 7471B	1,7471B	MG
Nickel, Total	10.6		mg/kg	1.13	0.109	1	09/22/18 16:04	09/23/18 10:07	EPA 3050B	1,6010D	PE
Selenium, Total	0.356	J	mg/kg	0.902	0.116	1	09/22/18 16:04	09/23/18 10:07	EPA 3050B	1,6010D	PE
Silver, Total	0.153	J	mg/kg	0.451	0.128	1	09/22/18 16:04	09/23/18 10:07	EPA 3050B	1,6010D	PE
Thallium, Total	ND		mg/kg	0.902	0.142	1	09/22/18 16:04	09/23/18 10:07	EPA 3050B	1,6010D	PE
Zinc, Total	266		mg/kg	2.26	0.132	1	09/22/18 16:04	09/23/18 10:07	EPA 3050B	1,6010D	PE

Project Name: WW CROSS PROPERTY
Lab Number: L1836586
Project Number: 141.05051.010
Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836586-02
Client ID: B-24
Sample Location: JAFFREY, NH
Date Collected: 09/06/18 09:50
Date Received: 09/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	0.768	J	mg/kg	2.14	0.163	1	09/22/18 16:04	09/23/18 10:24	EPA 3050B	1,6010D	PE
Arsenic, Total	6.18		mg/kg	0.429	0.089	1	09/22/18 16:04	09/23/18 10:24	EPA 3050B	1,6010D	PE
Beryllium, Total	0.094	J	mg/kg	0.214	0.014	1	09/22/18 16:04	09/23/18 10:24	EPA 3050B	1,6010D	PE
Cadmium, Total	1.36		mg/kg	0.429	0.042	1	09/22/18 16:04	09/23/18 10:24	EPA 3050B	1,6010D	PE
Chromium, Total	6.33		mg/kg	0.429	0.041	1	09/22/18 16:04	09/23/18 10:24	EPA 3050B	1,6010D	PE
Copper, Total	67.2		mg/kg	0.429	0.111	1	09/22/18 16:04	09/23/18 10:24	EPA 3050B	1,6010D	PE
Lead, Total	97.6		mg/kg	2.14	0.115	1	09/22/18 16:04	09/23/18 10:24	EPA 3050B	1,6010D	PE
Mercury, Total	0.114		mg/kg	0.068	0.014	1	09/22/18 10:00	09/24/18 12:55	EPA 7471B	1,7471B	MG
Nickel, Total	7.44		mg/kg	1.07	0.104	1	09/22/18 16:04	09/23/18 10:24	EPA 3050B	1,6010D	PE
Selenium, Total	0.219	J	mg/kg	0.858	0.111	1	09/22/18 16:04	09/23/18 10:24	EPA 3050B	1,6010D	PE
Silver, Total	ND		mg/kg	0.429	0.121	1	09/22/18 16:04	09/23/18 10:24	EPA 3050B	1,6010D	PE
Thallium, Total	ND		mg/kg	0.858	0.135	1	09/22/18 16:04	09/23/18 10:24	EPA 3050B	1,6010D	PE
Zinc, Total	164		mg/kg	2.14	0.126	1	09/22/18 16:04	09/23/18 10:24	EPA 3050B	1,6010D	PE

Project Name: WW CROSS PROPERTY
Lab Number: L1836586
Project Number: 141.05051.010
Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836586-03
Client ID: B-25
Sample Location: JAFFREY, NH
Date Collected: 09/06/18 10:10
Date Received: 09/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	0.603	J	mg/kg	2.14	0.162	1	09/22/18 16:04	09/23/18 10:29	EPA 3050B	1,6010D	PE
Arsenic, Total	8.50		mg/kg	0.428	0.089	1	09/22/18 16:04	09/23/18 10:29	EPA 3050B	1,6010D	PE
Beryllium, Total	0.205	J	mg/kg	0.214	0.014	1	09/22/18 16:04	09/23/18 10:29	EPA 3050B	1,6010D	PE
Cadmium, Total	1.25		mg/kg	0.428	0.042	1	09/22/18 16:04	09/23/18 10:29	EPA 3050B	1,6010D	PE
Chromium, Total	6.69		mg/kg	0.428	0.041	1	09/22/18 16:04	09/23/18 10:29	EPA 3050B	1,6010D	PE
Copper, Total	119		mg/kg	0.428	0.110	1	09/22/18 16:04	09/23/18 10:29	EPA 3050B	1,6010D	PE
Lead, Total	78.2		mg/kg	2.14	0.115	1	09/22/18 16:04	09/23/18 10:29	EPA 3050B	1,6010D	PE
Mercury, Total	ND		mg/kg	0.069	0.015	1	09/22/18 10:00	09/24/18 12:56	EPA 7471B	1,7471B	MG
Nickel, Total	9.99		mg/kg	1.07	0.103	1	09/22/18 16:04	09/23/18 10:29	EPA 3050B	1,6010D	PE
Selenium, Total	0.488	J	mg/kg	0.855	0.110	1	09/22/18 16:04	09/23/18 10:29	EPA 3050B	1,6010D	PE
Silver, Total	ND		mg/kg	0.428	0.121	1	09/22/18 16:04	09/23/18 10:29	EPA 3050B	1,6010D	PE
Thallium, Total	ND		mg/kg	0.855	0.135	1	09/22/18 16:04	09/23/18 10:29	EPA 3050B	1,6010D	PE
Zinc, Total	114		mg/kg	2.14	0.125	1	09/22/18 16:04	09/23/18 10:29	EPA 3050B	1,6010D	PE

Project Name: WW CROSS PROPERTY **Lab Number:** L1836586

Project Number: 141.05051.010 **Report Date:** 09/25/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1159674-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	09/22/18 10:00	09/24/18 12:07	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1159767-1										
Antimony, Total	ND		mg/kg	2.00	0.152	1	09/22/18 16:04	09/23/18 09:53	1,6010D	PE
Arsenic, Total	ND		mg/kg	0.400	0.083	1	09/22/18 16:04	09/23/18 09:53	1,6010D	PE
Beryllium, Total	ND		mg/kg	0.200	0.013	1	09/22/18 16:04	09/23/18 09:53	1,6010D	PE
Cadmium, Total	ND		mg/kg	0.400	0.039	1	09/22/18 16:04	09/23/18 09:53	1,6010D	PE
Chromium, Total	ND		mg/kg	0.400	0.038	1	09/22/18 16:04	09/23/18 09:53	1,6010D	PE
Copper, Total	ND		mg/kg	0.400	0.103	1	09/22/18 16:04	09/23/18 09:53	1,6010D	PE
Lead, Total	ND		mg/kg	2.00	0.107	1	09/22/18 16:04	09/23/18 09:53	1,6010D	PE
Nickel, Total	ND		mg/kg	1.00	0.097	1	09/22/18 16:04	09/23/18 09:53	1,6010D	PE
Selenium, Total	ND		mg/kg	0.800	0.103	1	09/22/18 16:04	09/23/18 09:53	1,6010D	PE
Silver, Total	ND		mg/kg	0.400	0.113	1	09/22/18 16:04	09/23/18 09:53	1,6010D	PE
Thallium, Total	ND		mg/kg	0.800	0.126	1	09/22/18 16:04	09/23/18 09:53	1,6010D	PE
Zinc, Total	ND		mg/kg	2.00	0.117	1	09/22/18 16:04	09/23/18 09:53	1,6010D	PE

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WW CROSS PROPERTY

Project Number: 141.05051.010

Lab Number: L1836586

Report Date: 09/25/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1159674-2 SRM Lot Number: D102-540								
Mercury, Total	82		-		65-134	-		
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1159767-2 SRM Lot Number: D102-540								
Antimony, Total	128		-		1-199	-		
Antimony, Total	131		-		1-199	-		
Arsenic, Total	87		-		83-117	-		
Beryllium, Total	83		-		83-116	-		
Cadmium, Total	90		-		83-118	-		
Chromium, Total	102		-		83-117	-		
Copper, Total	84		-		84-116	-		
Lead, Total	86		-		82-118	-		
Nickel, Total	85		-		83-117	-		
Selenium, Total	91		-		79-121	-		
Silver, Total	86		-		80-120	-		
Thallium, Total	90		-		81-119	-		
Zinc, Total	83		-		81-118	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1836586
Report Date: 09/25/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1159767-3 QC Sample: L1836586-01 Client ID: B-23												
Antimony, Total	0.668J	44.4	37.9	85		-	-		75-125	-		20
Arsenic, Total	5.50	10.6	15.4	93		-	-		75-125	-		20
Beryllium, Total	0.171J	4.44	3.94	89		-	-		75-125	-		20
Cadmium, Total	2.55	4.53	7.13	101		-	-		75-125	-		20
Chromium, Total	10.9	17.8	27.3	92		-	-		75-125	-		20
Copper, Total	122.	22.2	143	95		-	-		75-125	-		20
Lead, Total	150.	45.3	197	104		-	-		75-125	-		20
Nickel, Total	10.6	44.4	46.3	80		-	-		75-125	-		20
Selenium, Total	0.356J	10.6	9.82	92		-	-		75-125	-		20
Silver, Total	0.153J	26.6	24.6	92		-	-		75-125	-		20
Thallium, Total	ND	10.6	7.78	**73**	Q	-	-		75-125	-		20
Zinc, Total	266.	44.4	334	**153**	Q	-	-		75-125	-		20

INORGANICS
&
MISCELLANEOUS

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1836586
Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836586-01
Client ID: B-23
Sample Location: JAFFREY, NH

Date Collected: 09/13/18 11:30
Date Received: 09/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.3		%	0.100	NA	1	-	09/18/18 01:27	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1836586
Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836586-02
Client ID: B-24
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 09:50
Date Received: 09/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	09/18/18 01:27	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1836586
Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836586-03
Client ID: B-25
Sample Location: JAFFREY, NH

Date Collected: 09/06/18 10:10
Date Received: 09/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	09/18/18 01:27	121,2540G	FN

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1836586
Report Date: 09/25/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1836586-01A	Vial MeOH preserved	A	NA		4.4	Y	Absent		HOLD-8260HLW(14)
L1836586-01B	Vial water preserved	A	NA		4.4	Y	Absent	15-SEP-18 07:49	HOLD-8260HLW(14)
L1836586-01C	Vial water preserved	A	NA		4.4	Y	Absent	15-SEP-18 07:49	HOLD-8260HLW(14)
L1836586-01D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L1836586-01E	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		HOLD-WETCHEM()
L1836586-01F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.4	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1836586-01G	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		8270TCL-PAH(14),TPH-DRO-D(14)
L1836586-01H	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		8270TCL-PAH(14),TPH-DRO-D(14)
L1836586-02A	Vial MeOH preserved	A	NA		4.4	Y	Absent		HOLD-8260HLW(14)
L1836586-02B	Vial water preserved	A	NA		4.4	Y	Absent	**15-SEP-18 07:49**	HOLD-8260HLW(14)
L1836586-02C	Vial water preserved	A	NA		4.4	Y	Absent	**15-SEP-18 07:49**	HOLD-8260HLW(14)
L1836586-02D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)
L1836586-02E	Glass 60mL/2oz unpreserved	A	NA		4.4	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1836586-02F	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		HOLD-WETCHEM(),8270TCL-PAH(14),TPH-DRO-D(14)
L1836586-02G	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		HOLD-WETCHEM(),8270TCL-PAH(14),TPH-DRO-D(14)
L1836586-03A	Vial MeOH preserved	A	NA		4.4	Y	Absent		HOLD-8260HLW(14)
L1836586-03B	Vial water preserved	A	NA		4.4	Y	Absent	**15-SEP-18 07:49**	HOLD-8260HLW(14)
L1836586-03C	Vial water preserved	A	NA		4.4	Y	Absent	**15-SEP-18 07:49**	HOLD-8260HLW(14)
L1836586-03D	Plastic 2oz unpreserved for TS	A	NA		4.4	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: WW CROSS PROPERTY
Project Number: 141.05051.010

Lab Number: L1836586
Report Date: 09/25/18

Container Information

Container ID	*Container Type*	*Cooler*	*Initial pH*	*Final pH*	*Temp deg C*	*Pres*	*Seal*	*Frozen Date/Time*	*Analysis(*)*
L1836586-03E	Glass 60mL/2oz unpreserved	A	NA		4.4	Y	Absent		BE-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1836586-03F	Glass 120ml/4oz unpreserved	A	NA		4.4	Y	Absent		HOLD-WETCHEM(),8270TCL-PAH(14),TPH-DRO-D(14)
L1836586-03G	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		HOLD-WETCHEM(),8270TCL-PAH(14),TPH-DRO-D(14)
L1836586-04A	Vial MeOH preserved	A	NA		4.4	Y	Absent		HOLD-8260HLW(14)
L1836586-04B	Vial water preserved	A	NA		4.4	Y	Absent	**15-SEP-18 07:49**	HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1836586
Project Number:	141.05051.010	**Report Date:**	09/25/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1836586
Project Number:	141.05051.010	**Report Date:**	09/25/18

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	WW CROSS PROPERTY	**Lab Number:**	L1836586
Project Number:	141.05051.010	**Report Date:**	09/25/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Serial_No:09251819:00

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220

320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab: 9/14/18

ALPHA Job #: L1836586

Project Information

Project Name: WW Cross Property

Project Location: Jaffrey NH

Project #: 141.05051.010

Project Manager: Steven Rizkerich

ALPHA Quote #:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #: 11151

Client Information

Client: Ransom Consulting Inc.

Address: 112 Corporate Drive Portsmouth, NH 03801

Phone: 603-436-1490

Email: srizkerich@ransomenv.com bonnie.best@ransomenv.com

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods

☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)

☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)

☐ Yes ☐ No NPDES RGP

☒ Other State /Fed Program NHDES+USEPA Brownfields Criteria Per SSQAPP

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Additional Project Information:

* = HOLD Sample

ANALYSIS: VOC: ☒ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☒ PAH; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☒ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☐ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint; TPH-DRO; Hexavalent Chromium

SAMPLE INFO: Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC 8260	SVOC PAH	Metals PP13	TPH-DRO	Hexavalent Chromium	Sample Comments	Total # Bottles
36586-01	B-23	9-13-18	11:30	S	DAF	*	✓	✓	✓	*		
02	B-24	9-6-18	9:50	↓	DAF/BAB	*	✓	✓	✓	*		
03	B-25	9-6-18	10:10	↓	DAF/BAB	*	✓	✓	✓	*		
04	Trip Blank					*						

	VOC	SVOC	Metals	TPH-DRO	Hex Cr
Container Type	V	A	A	A	A
Preservative	F	A	A	A	A

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	9-14-18 12:35	[signature]	9/14/18 12:35
[signature] AAL	9/14/18	Rob Maestro AAL	9-14-18 1930
Rob Maestro	9/14/18 2055	[signature]	2055

FORM NO: 01-01 (rev. 12-Mar-2012)