Waste Management Division
PO Box 95, 29 Hazen Drive
Concord, NH 03302

Type of Submittal (Check One-Most Applicable)

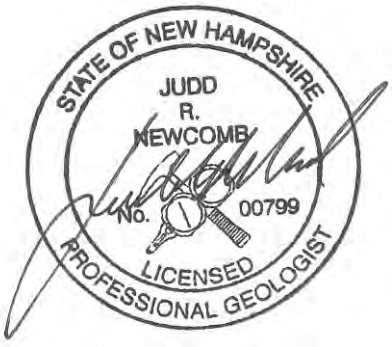
☐ Work Scope ☐ Reimbursement Request	☐ Remedial Action • Remedial Action Plan • Bid Plans and Specifications • Remedial Action Implementation Report ☐ Treatment System and POE O&M ☐ Activity and Use Restriction
☐ UST Facility Report ☐ AST Facility Report	
☐ Emergency/Initial Response Action ☐ Groundwater Quality Assessment	☐ Temporary Surface Water Discharge Permit
☐ Initial Site Characterization ☐ Site Investigation • Site Investigation Report • Supplemental Site Investigation Report • GMZ Delineation • Source Area Investigation • Data Submittal • Annual Summary Report ☒ Unsolicited Phase II Environmental Site Assessment ☐ Closure Documentation	☐ Groundwater Management Permit • Permit Application • Renewal Application • Deed Recordation Documentation • Abutter Notification Documentation • Release of Recordation ☐ Data Submittal ☐ Annual Summary Report

PHASE II ENVIRONMENTAL SITE ASSESSMENT

Madeira Property
NHDES Site#: 201501001
42 Franklin Street, 27 Bayside Court, and 30 Bayside Court
Laconia, New Hampshire

Madeira USA
30 Bayside Court
Laconia, New Hampshire 03246
Phone: (800) 225-3001 ext. 142
Contact: Ms. Colleen Hartigan

Prepared For:
Lakes Region Planning Commission, Brownfields Assessment Grant
103 Main Street #3
Meredith, New Hampshire 03253
Phone: (603) 279-8171
Contact: Mr. Jeff Hayes



Prepared By:
CREDERE ASSOCIATES, LLC
776 Main Street
Westbrook, ME 04902
Phone: (207) 828-1272 ext. 16
Contact: Judd Newcomb, CG, PG

December 16, 2015

Recommended Risk Category (check one)

☐ 1. Immediate Human Health Risk (Impacted water supply well, etc.)	☐ 4. Surface Water Impact	☐ 7. Alternate Water Available/Low Level Groundwater Contamination (<1,000 X AGQS)
☐ 2. Potential Human Health Risk (Water supply well within 1,000' or Site within SWPA)	☐ 5. No Alternate Water Available/No Existing Wells in Area	☐ 8. No AGQS Violation/No Source Remaining
☐ 3. Free Product or Source Hazard	☐ 6. Alternate Water Available/High Level Groundwater Contamination (>1,000 X AGQS)	☐ Closure Recommended

CREDERE ASSOCIATES, LLC
776 Main Street
Westbrook, Maine 04092
Phone: 207-828-1272
Fax: 207-887-1051

December 16, 2015

Jeff Hayes
Lakes Region Planning Commission
103 Main Street #3
Meredith, NH 03253

Colleen Hartigan
Madeira USA
30 Bayside Court
Laconia, NH, 03246

Subject: **Phase II Environmental Site Assessment**
Madeira Property, NHDES # 201501001
42 Franklin Street, 27 Bayside Court, and 30 Bayside Court
Laconia, New Hampshire

Dear Mr. Hayes and Ms. Hartigan:

This report has been prepared to present the results of a Phase II Environmental Site Assessment completed for the above referenced property (the Site). Sections 6 and 7 of this report include the conclusions and recommendations generated during the performance of the Phase II Environmental Site Assessment.

Please do not hesitate to contact me at (207) 828-1272 extension 15 if you have any questions, comments, or require additional information regarding this investigation.

Sincerely,

CREDERE ASSOCIATES, LLC

Allison S. Drouin, PG
Geologist

Judd Newcomb, PG, CG
Geologist/Project Manager

Enclosure: Phase II ESA

CC: Michael McCluskey, NHDES
Alan Peterson, EPA

CREDERE ASSOCIATES, LLC
776 Main Street
Westbrook, Maine 04092
Phone: 207-828-1272
Fax: 207-887-1051

Phase II Environmental Site Assessment

Madeira Property
NHDES Site #: 201501001
42 Franklin Street,
27 Bayside Court & 30 Bayside Court
Laconia, New Hampshire

Prepared for and funded by:
Brownfields Assessment Grant #: BF-96176301
Lakes Region Planning Commission
103 Main Street #3
Meredith, NH 03253

December 16, 2015

In Reference to:
Project No. 14001247

EXECUTIVE SUMMARY

Credere Associates, LLC (Credere) was retained by the Lakes Region Planning Commission (LRPC) on behalf of Madeira USA to conduct a Phase II Environmental Site Assessment (ESA) at the Madeira Property located at 42 Franklin Street, 27 Bayside Court, and 30 Bayside Court in Laconia, New Hampshire (the Site). This Phase II ESA was completed in general conformance with the ASTM International (ASTM) E 1903-11 *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process* and with Credere's US Environmental Protection Agency (EPA) and New Hampshire Department of Environmental Services (NHDES) approved Site-Specific Quality Assurance Project Plan (SSQAPP) for the Site dated April 30, 2015.

The 5.31-acre Site consists of three parcels and is located west of the Lake Winnipesaukee Lakeport Dam. The Site is surrounded by residential buildings and is bordered by Opechee Bay to the south. The Site contains four buildings referred to as the Madeira office/warehouse building, the two-story building, the retail shop, and the lower building. Each building is of typical commercial/warehouse construction. The Site is identified by the City of Laconia on tax map 366, block 14, lot 4 and tax map 366, block 82, lots 5 and 6.

The Site was historically operated as several types of mills and has suffered multiple fires through its history. A subterranean canal was thought to be present to power the mills; however, new information obtained during this Phase I ESA indicated the canal was an overhead sluice that powered a water wheel; therefore, there is presumed to be no subsurface fill associated with the former canal.

The primary objective of this Phase II ESA is to confirm or dismiss the recognized environmental conditions (RECs) and environmental findings and fulfill the recommendations identified in Credere's December 3, 2014, Phase I ESA. The following objectives were established to aid in designing the scope of work:

- Assess the areas of former or suspect underground storage tanks (USTs) (RECs #1, #2, and #3)
- Assess the possible discharge location of the former boiler room sump of the two-story building (REC #5)
- Assess surface soil throughout the Site for impacts from historical fires (REC #6) and from historical use of the Site and surrounding area (REC #8)
- Assess the former canal for possible releases and filling (REC #7)
- Evaluate the presence and quantities of hazardous building materials throughout the lower building, retail store, and two-story building boiler room (REC #4 and Environmental Finding #1)

Per Madiera's request, hazardous building materials within the Madeira office/warehouse and most of the two-story building were not assessed at this time due to employee sensitivities.

The following sampling program was conducted to accomplish the above objectives:

- Soil boring advancement and soil sampling
- Monitoring well installation and groundwater sampling
- An asbestos survey and suspect asbestos-containing materials (ACM) sample collection
- A polychlorinated biphenyl (PCB)-containing building material survey and suspect material sample collection
- A lead-based paint (LBP) screening of the Site buildings
- An inventory of universal/hazardous and/or other regulated wastes present in the Site buildings

Soil borings/monitoring wells were installed downgradient of suspect USTs in three locations at the Site. CA-SB-6 was advanced downgradient of a suspect UST northeast of the two-story building (REC #3), CA-SB-7 was advanced downgradient of the location of a former UST southwest of the retail store (REC #1), and CA-SB-8/CA-MW-8 was located downgradient of a suspect UST near the southeastern corner of the Madeira office/warehouse building (REC #2). Low levels of total petroleum hydrocarbons (TPH) were detected below the NHDES Soil Remediation Standard (SRS) in soil samples from CA-SB-7 and CA-SB-8. A photoionization detector (PID) reading of 46.3 parts per million by volume (ppm_v) was detected in CA-SB-6; however, analytical results did not indicate the presence of petroleum related contamination. It is possible the USTs associated with the two-story building and Madeira office/warehouse are still present; however, since the two-story building UST would have a telephone pole installed through it, it would have previously released its contents and no longer represents a threat of release. The office/warehouse UST is beneath a landscaped area within a retaining wall and the previous geophysical survey was inconclusive regarding the current presence of the UST. Although evidence of a current release was not identified, the office/warehouse UST continues to represent a threat of release due to its age and unknown condition.

A previous geophysical survey was performed around the two-story building to assess for piping that may discharge from a sump within the two-story building boiler room to a reported onsite dry well. The geophysical survey did not indicate evidence of piping exiting the building in the area of the boiler room that may be running to the reported dry well. The Site manager indicated his suspicion was that the dry well was located under the parking lot south of the two-story building. Soil boring/monitoring well CA-SB-5/CA-MW-5 was installed in the suspected location of the dry well (REC #5). With the exception of presumed naturally occurring metals, analytical results for soil and groundwater were below the laboratory reporting limits.

Polycyclic aromatic hydrocarbons (PAHs) and metals were detected in exceedance of the NHDES SRSs in several samples collected from across the Site including soil borings CA-SB-2, CA-SB-3, CA-SB-4, and CA-SB-7, and in surface soil samples CA-SS-4 and CA-SS-5. Anthropogenic fill materials including coal, coal ash, cinders, wood, and concrete/mortar were observed at the intervals where most of the exceeding samples were collected. The

anthropogenic fill is likely associated with historical fires and a long history of industrial use of the Site (RECs #6 and #8). Exceedances were detected in both surface (0 to 2 feet) and subsurface (>2 feet) soil.

The presence of petroleum or hazardous materials associated with the potential filling of a historical canal (REC #7) was intended to be assessed with soil boring locations CA-SB-3 and CA-SB-4. However, following completion of the Phase I ESA new information was obtained that indicated the canal was actually an elevated sluice attached to the former building at the Site; therefore, filling did not occur and the REC could be dismissed. Although not used to assess REC #7, soil borings CA-SB-3 and CA-SB-4 were still advanced and soil samples were collected to further assess RECs #6 and #8.

The lower building, two-story building boilers room, and retail store were surveyed for the presence of hazardous building materials including ACM, LBP, and PCB-containing materials (REC #4 and Environmental Finding #1). Sampling of suspect building materials indicated the presence of ACM in window glazing (CA-ACM-3 and CA-ACM-10), thermal system insulation (TSI) (CA-ACM-4 and CA-ACM-5), gaskets (CA-ACM-6), floor tiles (CA-ACM-7, CA-ACM-8, and CA-ACM-12), mastic (CA-ACM-9 and CA-ACM-12), and ceiling tiles (CA-ACM-13). PACM TSI in the boiler room was confirmed to be ACM, however no pathway to the environment was observed; therefore, per the definition of a REC this finding cannot be a REC. PCBs were found in paint (CA-PCB-1, CA-PCB-2, CA-PCB-4, CA-PCB-6, CA-PCB-7, and CA-PCB-8), mastic (CA-PCB-9), and caulk (CA-PCB-10) at total PCB concentrations ranging from 1.1 to 5.4 milligrams per kilogram (mg/kg). PCBs at these concentrations are not regulated by the Toxic Substance Control Act (TSCA); however, will require proper handling and disposal if removed from use. LBP was not found on any screened surfaces within/on the buildings surveyed. The Madeira office/warehouse and the remainder of the two-story building were not surveyed during this Phase II ESA per Madeira's request.

Based on these results, Credere makes the following conclusions with regard to the RECs and environmental finding identified in the Phase I ESA:

- REC #1 – Potential impacts from a historical UST at the retail store: DISMISSED
- REC #2 – Threat of release from an unregistered UST at the Madeira office/warehouse building: INCONCLUSIVE; however, no impacts were identified
- REC #3 – Threat of release from an unregistered UST northeast of the two-story building: DISMISSED
- REC #4 – Release of ACM in waste form in the boiler room of the two-story building: ACM CONFIRMED; however, justification for the REC is DISMISSED
- REC #5 – Conditions indicative of a release from the former boiler room sump: DISMISSED

- REC #6 – Contaminants associated with The Great Fire of 1903 and Sweaterville Fire that occurred sometime between 1948 and 1976: CONFIRMED; however, not currently regulated for removal by NHDES
- REC #7 – Possible historical releases to the former canal and filling of the canal with an unknown source of fill: DISMISSED
- REC #8 – Surface soil and sediment impacts associated with historical use of the Site and surrounding area: CONFIRMED
- Environmental Finding #1 – Observed possible hazardous building materials throughout the Site: CONFIRMED

Based on the findings and conclusions of this investigation, Credere makes the following recommendations:

- Assess the remainder of the two-story building and the Madeira office/warehouse building for the presence of hazardous building materials.
- Since PAHs, arsenic and lead have been attributed to historical fire debris and coal ash, it is Credere opinion the impacted soil is not required to be removed. Therefore, no additional delineation is recommended for PAHs.
- Although not required to be removed, the PAH, arsenic, and lead impacted soil still requires management as a solid waste; therefore, a Soil Management Plan should be prepared to facilitate the proper management of PAH and metals impacted soil during any future redevelopment or construction
- Restrict access to the boiler room where damaged ACM is present to prevent exposure to asbestos
- Proper abatement of ACM prior to renovations or demolition of the lower building, two-story building boiler room, or retail store
- Proper handling and disposal of PCB-containing building materials during any future renovations/demolition of the lower building, two-story building boiler room, and retail store
- Proper disposal of universal/hazardous and other regulated wastes during/prior to redevelopment

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1. INTRODUCTION

Credere Associates, LLC (Credere) was retained by the Lakes Region Planning Commission (LRPC) on behalf of Madeira USA to conduct a Phase II Environmental Site Assessment (ESA) at the Madeira Property located at 42 Franklin Street, 27 Bayside Court, and 30 Bayside Court in Laconia, New Hampshire (the Site). This Phase II ESA was completed in general conformance with the ASTM International (ASTM) E 1903-11 *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process* and with Credere's US Environmental Protection Agency (EPA) and New Hampshire Department of Environmental Services (NHDES) approved Site Specific Quality Assurance Project Plan (SSQAPP) for the Site dated April 30, 2015. A copy of the SSQAPP is included in **Appendix A**.

1.1 PURPOSE

Phase II activities were performed to assess recognized environmental conditions (RECs) and an environmental finding identified in Credere's December 3, 2014, Phase I ESA of the Site.

1.2 STATEMENT OF OBJECTIVES

This section was developed to provide clarity and transparency in communicating and interpreting Phase II ESA results. The primary objective of this Phase II ESA is to confirm or dismiss the RECs and environmental findings and fulfill the recommendations identified in Credere's December 3, 2014, Phase I ESA. The following objectives were established to aid in designing the scope of work:

- Assess the areas of former or suspect underground storage tanks (USTs) (RECs #1, #2, and #3)
- Assess the possible discharge location of the former boiler room sump of the two-story building (REC #5)
- Assess surface soil throughout the Site for impacts from historical fires (REC #6) and from historical use of the Site and surrounding area (REC #8)
- Assess the former canal for possible releases and filling (REC #7)
- Evaluate the presence and quantities of hazardous building materials throughout the lower building, retail store, and two-story building boiler room (REC #4 and Environmental Finding #1)

Per Madiera's request, hazardous building materials within the Madeira office/warehouse and most of the two-story building were not assessed at this time due to employee/tenant sensitivities.

2. BACKGROUND INFORMATION

2.1 SITE DESCRIPTION

The 5.31-acre Site consists of three parcels and is located west of the Lake Winnipesaukee Lakeport Dam. The Site is surrounded by residential buildings and is bordered by Opechee Bay to the south. The Site contains four buildings referred to as the Madeira office/warehouse building, the two story building, the retail shop, and the lower building. The Site is identified by the City of Laconia on tax map 366, block 14, lot 4 and tax map 366, block 82, lots 5 and 6.

All four Site buildings are connected to natural gas for heating purposes despite the assessment card reporting the two-story building as oil fueled. Electricity is available to the Site from Eversource. Public water and sewer from the City of Laconia is provided to the Site from Elm Street.

Madeira Office/Warehouse Building

The Madeira office/warehouse building is a 17,547-square foot light-industrial style building constructed in 1923. This building is the easternmost building and is used by Madeira USA as a distribution center. The second and third floors are office space, and the first floor is a large warehouse. The building is well maintained with no evidence of hazardous material use or storage observed.

Two-Story Building

The two-story building is an 18,834-square foot light-industrial style building built in 1923 along Franklin Street. It is currently occupied by EAG, an online company specializing in engraving, awards and gifts. The second floor consists of offices and light manufacturing. The first floor consists of distribution and warehouse space. A former boiler room is located on the first floor, which contains two out-of-service fuel oil boilers. The boiler insulation was observed to be damaged and discarded throughout the boiler room. A sump is also present that reportedly discharges to an onsite drywell.

Lower Building

The lower building is a 10,064-square foot warehouse style building constructed in 1964 in the westernmost portion of the Site. The interior consists of a large warehouse area and a smaller section comprised of several empty rooms, a bathroom, and a smaller warehouse area. The building is currently vacant and has sustained water damage to the roof and floor.

Retail Store

The retail store was constructed in 1923, and is the smallest building associated with the Site consisting of 5,000-square feet. It is currently vacant and is located on the northeast corner of the Site. The building consists of a show room, offices, and a small warehouse area.

2.2 SITE AND SURROUNDING AREA HISTORY

The Site

The Site was first developed by Nathan Batchelder who constructed a woolen mill in the mid-1800s that was subsequently destroyed by fire in 1885. In its place, the Union Lace Mill, the H. H. Wood & Co. Oriental Hosiery Mill, and the Riverside Grist Mill were constructed by 1887. In 1892, the W.M. Clow & Sons Hosiery Mill took the place of the Union Lace Mill on the western portion of the Site. By 1897, the Boulia Gorrell & Company Sash and Blind Factory was constructed on the eastern portion of the Site. The Laconia Electric Light Company, which generated electricity, was also constructed on the eastern most portion of the Site east of the grist mill. By 1902, the W.M. Clow & Sons Hosiery was closed and the building was used for storage by Boulia Gorrell & Company. In addition, the main mill buildings, several dye houses and coal sheds were present throughout the Site. These mills and the hydro-electric power plant utilized a canal running from the present day Lakeport Dam, parallel to the present lake shore.

These mills operated until they were destroyed in The Great Fire of 1903, which started in the H. H. Wood & Co. Oriental Hosiery Mill. Since the Laconia Electric Light Company supplied water pressure to the town at the time, firemen were unable to extinguish the fire when the hydro-electric power plant burned. One year after the fire, the H.H. Wood & Company Oriental Hosiery Mill, the Boulia Gorrell & Company mill and the power generation plant were reconstructed; however, the Laconia Electric Light Company structure is used as a transformer house only.

By 1923, the three current eastern Site buildings were depicted north of the largest mill building and the Site was primarily occupied by the Boulia Gorrell Lumber Company. The mill along the water was still occupied by the H.H. Wood Hosiery Mill. The western most current Site building was constructed in 1960. Through historical research performed during the Phase I ESA, Credere discovered the Sweaterville Fire occurred at the Site at an unknown date sometime between 1948 and 1976. The large mill building along the water burned down during the Sweaterville Fire during occupation by the Barbary Knitting Mill, Sweaterville Factory. By 1976, the Site buildings were utilized by the Laconia Industrial Development Corporation that included textile production in the two western buildings, a meat distributer in the northern building, and copper heating coil manufacturing in the eastern building. The Genesis Knitting Mills occupied the Site from 1982 to 1985 until they went bankrupt.

Surrounding Area

The surrounding area has been residential since at least 1887. All nearby buildings were reportedly burned in The Great Fire of 1903 and redevelopment was slow to return. From at least 1911 through 1948, a blacksmith and wheelwright were located adjacent to the northeast corner of the Site. By 1976, most of the residential homes had been constructed similar to present conditions.

2.3 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

The following prior environmental reports were identified for the Site.

Pre-Sale ESA, Dunn Geoscience Corporation (DGC), December 3, 1986

In December 1986, DGC conducted a Pre-Sale ESA for Bay Bank-Middlesex to assess potential environmental risks at the Site. DGC interviewed Benjamin Greenfield, the owner of the Site during its occupation by the Barbary Knitting Mills, Sweaterville Factory from 1966 to 1982. Mr. Greenfield reported dyes and hazardous materials were not used onsite by the Sweaterville Factory, and wash effluent was discharged to the sanitary sewer system. He also indicated the Site was later owned and occupied by the Genesis Knitting Mills from 1982 to 1985 until they went bankrupt.

DGC conducted an investigation of a 5,000-gallon No. 4 fuel oil UST located off the northeast corner of the two-story building to assess a potential release of fuel oil. The UST was reported to have been installed in approximately 1971 and was not registered with NHDES. On December 2, 1986, three (3) test pits were excavated immediately downgradient from the suspected UST location. Soil samples were screened for petroleum products using a Photovac T.I.P. Meter. No evidence of petroleum impacts was identified during the investigation. DGC recommended the registration of the 5,000-gallon UST with the New Hampshire Water Supply and Pollution Control Commission (the regulatory body at the time).

Phase I ESA, December 3, 2014, Credere

Credere prepared a Phase I ESA for the Site dated December 3, 2014, which also included a ground-penetrating radar (GPR) survey to assess four potential UST locations at the Site. Based on reviews of historical sources, environmental databases, interviews, information provided by the City of Laconia, a Site reconnaissance, GPR survey results, and judgment by the Environmental Professional, the following recognized environmental conditions (RECs) were identified in connection with the Site:

- REC #1 – Potential impacts from historical UST at the retail store
- REC #2 – Threat of release from an unregistered UST at the Madeira office building
- REC #3 – Threat of release from an unregistered UST northeast of the two-story building
- REC #4 – Release of ACM in waste form in the boiler room of the two-story building
- REC #5 – Conditions indicative of a release from former boiler room sump pump
- REC #6 – Contaminants associated with The Great Fire of 1903 and Sweaterville fire that occurred sometime between 1948 and 1976
- REC #7 – Possible historical releases to the former canal and filling of the canal with an unknown source of fill materials
- REC #8 – Surface soil and sediment impacts associated with historical use of the Site and surrounding area

Additionally, the following environmental finding, which did not meet the ASTM E 1527-13 definition of a REC, historical REC (HREC), controlled REC (CREC), or *de minimis* condition (DMC), but warranted the opinion of an Environmental Professional and may represent some degree of environmental business risk, was identified:

- Environmental Finding #1 – Observed possible hazardous building materials throughout the Site

Based on the RECs and environmental finding identified during this Phase I ESA, Credere recommended the following:

- A Phase II investigation to confirm or dismiss the RECs and environmental findings identified in this Phase I ESA.
- A hazardous building materials survey (HBMS) to assess the presence of hazardous building materials throughout the Site.

3. SCOPE OF WORK & METHODOLOGY

The following sampling program was developed to investigate select environmental media and building materials at the Site and meet the objectives identified in **Section 1**. Sampling was conducted in accordance with Credere's April 30, 2015, SSQAPP which is included in **Appendix A**. A photo log of field activities is included as **Appendix B**.

3.1 SOIL BORING ADVANCEMENT & SOIL SAMPLING

On May 7 and 8, 2015, Credere oversaw T&K Drilling Inc. of Troy, New Hampshire, advance nine (9) soil borings (CA-SB-1 through CA-SB-9, **Photographs 1** through **9**) at the Site using a truck mounted hollow-stem auger (HSA) drill rig. Soil borings were advanced to depths ranging from 8.9 to 25 feet below ground surface (bgs). Soil macrocores were collected continuously using steel split spoons. Macrocores were individually logged, evidence of contamination was noted, and soil was field screened for total volatile organic compounds (VOCs) using a Thermo 580B OVM photoionization detector (PID) calibrated with a 100 part per million by volume (ppm_v) isobutylene gas standard with an instrument response factor of 1.0. Soil was screened in accordance with the NHDES HWRB-12 jar headspace technique SOP. Soil boring logs are provided in **Appendix C**.

One (1) subsurface soil sample was collected from soil borings CA-SB-1and CA-SB-2 to assess for impacts associated with former dye houses, historical use of the Site, and historical fires.

Two (2) soil samples were collected from soil borings CA-SB-3 and CA-SB-4 to assess releases and industrial fill material in the former canal, impacts from historical use of the Site, and historical fires. Subsurface samples were collected at CA-SB-3 and CA-SB-4 to assess potential leaching of contaminants to native material beneath the extent of contamination associated with the former canal fill.

Subsurface soil samples were collected from soil boring CA-SB-5 through CA-SB-9 to assess possible impacts from the discharge of the former boiler room sump pump to a potential dry well, potential releases from the former UST located off the northeast corner of the retail store, a UST located off the southwest corner of the retail store, a potential release from a UST off the southeast corner of the Madeira office/warehouse building, and to establish background conditions at the Site, respectively.

On May 7, 2015, five (5) surface soil samples (**Photographs 10** through **14**) were collected from 0 to 1.5 feet bgs using a decontaminated shovel to assess impacts associated with the historical use of the Site, historical fires, and to document surface soil conditions in support of Site reuse.

In all soil samples, representative soil was sampled from the macrocore or from the surface using a hand auger. VOC samples were collected with a dedicated soil syringe directly from the macrocores immediately after opening to prevent loss of volatiles and degradation. Soil for other analyses was taken from the macrocore or hand augured hole, homogenized in a decontaminated stainless steel bowl, and placed in laboratory provided glassware. Soil samples were stored on

ice and submitted to Absolute Resource Associates (ARA) of Portsmouth, New Hampshire, for analysis. Sample locations are depicted on **Figure 2**, and a summary of soil boring and soil samples collected from the Site is provided in **Table 1**.

Excess soil from each boring or surface sample location was returned to its place of origin within the borehole or to the surface surrounding the borehole.

3.2 MONITORING WELL INSTALLATION & GROUNDWATER SAMPLING

Soil borings CA-SB-1 through CA-SB-5, CA-SB-8 and CA-SB-9 were completed as groundwater monitoring wells CA-MW-1 through CA-MW-5, CA-MW-8, and CA-MW-9, respectively, using 1-inch diameter PVC materials. Each well was installed with a either a 7-foot or 10-foot, 0.010-inch slotted screen with at least 5 feet of screen below the depth of the water table and a solid riser to the surface. The well annuli were constructed using No. 2 washed silica sand and bentonite seals were installed above the screens. The wells were completed with flush mounted road boxes. Each well was developed by over pumping and agitation methods. The wells were purged until a total of at least three well volumes were removed.

Following installation, the top of PVC elevation was determined for each monitoring well using a rod and level. A foundation near the shore of Opechee Bay was used as an onsite benchmark. Based on a 1987 United States Geological Survey (USGS) Topographic Map of the Laconia Quadrangle, New Hampshire, the surface elevation in the vicinity of the benchmark was 493 feet above mean sea level (AMSL). A groundwater contour map showing well locations is provided as **Figure 3**.

Following development, Credere allowed more than 14 days for the monitoring wells to equilibrate with the surrounding aquifer prior to sampling. Depth to groundwater was measured. Groundwater elevations were calculated relative to the top of the well casing and elevations were mapped to assess the groundwater flow direction. A summary of well construction details and gauging data is provided in **Table 2**.

On May 27, 2015, groundwater samples were collected to assess possible contamination from former dye houses and to assess impacts from historical fires (CA-MW-1and CA-MW-2), to assess releases to and industrial fill in the former canal and to assess impacts from historical fires (CA-MW-3 and CA-MW-4), to assess possible contamination from the discharge of the former boiler room sump to a drywell (CA-MW-5), to assess potential releases from the suspect UST located off the southeast corner of the Madeira office/warehouse building (CA-MW-8), and to assess groundwater in an upgradient location perceived to be unconnected to any of the RECs identified for the Site (CA-MW-9).

Each well was sampled using low-flow sampling methodologies. During sampling, groundwater was purged using a peristaltic pump and periodically monitored for temperature, pH, oxidation-reduction potential (ORP), specific conductivity, dissolved oxygen, and turbidity using a multi-parameter meter and an in-line flow through cell until parameters stabilized over a period of three readings, spaced at least 5 minutes apart or at a spacing to allow for a complete exchange

of flow through the flow through cell calculated based on the flow through cell volume and flow rate. Upon stabilization of field parameters, groundwater samples were collected from immediately after the pump in order of decreasing volatility. Groundwater samples were stored on ice and submitted to ARA for analysis of VOCs by EPA Method 8260C, semi-volatile organic compounds (SVOCs) by EPA Method 8270D, and dissolved Resource Conservation and Recovery Act (RCRA) 8 metals by EPA methods 6010C and 7470A. Field logs from the groundwater sampling event are included in **Appendix C**.

3.3 ASBESTOS SAMPLING

On May 7, 2015, the retail store, boiler room of the Two Story Building, and lower building were surveyed for the presence of suspect ACM by a Credere New Hampshire Certified Asbestos Inspector. Copies of asbestos inspector certifications are included in **Appendix D**. Thirteen (13) samples of suspect ACM were collected in triplicate (i.e., 39 total ACM samples). The sampling was performed in accordance with NHDES Chapter Env-A 1800 – Asbestos Management and Control. Samples were analyzed by EMSL Analytical, Inc. (EMSL) of South Portland, Maine, using Polarized Light Microscopy (PLM) according to EPA Method 600/R-93/116. A summary of ACM samples collected from the Site is provided in **Table 3**, and sample locations are shown on **Figure 4**.

3.4 PCB-CONTAINING BUILDING MATERIALS SAMPLING

On May 7, 2015, the retail store, the boiler room of the two-story building, and the lower building were surveyed to locate the materials that in Credere's experience are likely to contain concentrations of PCBs exceeding the PCB bulk product waste criteria as defined by 40 CFR 761.3. Ten (10) samples of suspect PCB-containing building materials were collected (CA-PCB-1 through CA-PCB-10). A summary of PCB-containing building materials collected from the Site is provided in **Table 4**, and sample locations are shown on **Figure 4**.

3.5 LEAD-BASED PAINT SCREENING

Painted surfaces throughout the retail store, the boiler room of the two-story building, and the lower building were screened for lead in LBP using an X-ray fluorescence (XRF) meter. Each accessible color and type of paint was screened with the XRF.

LBP was not identified on the exterior of either the Retail Store or the Lower Building, therefore, soil surrounding the building was not screened for lead to assess if chipping or flaking of LBP (presently or in the past) from the Site building impacted Site surface soil. A summary of areas screened for LBP is provided in **Table 5**.

3.6 UNIVERSAL/HAZARDOUS/OTHER WASTE INVENTORY

Materials that once removed meet the definition of universal/hazardous or other regulated waste that require special disposal were inventoried in the retail store, boiler room of the two-story building, and the lower building. A summary of materials inventoried is provided in **Table 6**.

3.7 REGULATORY CRITERIA

Sample results were compared to the following applicable state and federal standards and/or guidelines.

Soil

Soil analytical results were compared to the June 1, 2015, New Hampshire Code of Administrative Rules Chapter Env-Or 600 – Contaminated Site Management Table 600-2 SRSs and February 2013 Appendix E Method 1 Soil Standards.

Groundwater

Groundwater analytical results were compared to the New Hampshire Code of Administrative Rules Chapter Env-Or 600 – Contaminated Site Management Table 600-1 Ambient Groundwater Quality Standards (AGQS) updated June 1, 2015, and Table 2 Method 1 Groundwater Standards from the NHDES Risk Characterization and Management Policy (Section 7.4(4)) as updated February 2013.

Asbestos

Laboratory analytical results for asbestos bulk samples were compared to the 1% limit specified in Chapter Env-A 1800 – Asbestos Management and Control.

PCBs in Building Materials

PCB-containing building materials were compared to the 40 CFR 761.3 definition of PCB bulk product waste 50 mg/kg threshold criteria.

Materials that have been analyzed to contain total PCBs at a concentration of equal to or greater than 1 mg/kg but less than 50 mg/kg are not regulated by the Toxic Substance Control Act (TSCA) for disposal as long as they remain in use. However, if these materials are removed from use, such as through renovation or demolition, they are considered waste and must be disposed at a facility that is licensed to accept this waste. Building materials which have been analyzed to contain total PCBs at a concentration of less than 1 mg/kg are unrestricted for future use and/or disposal.

Lead-Based Paint Screening Results

Screening results were compared to the 1.0 milligram per square centimeter (mg/cm^2) HUD Guideline and Chapter 130 – Lead Paint Poisoning Prevention and Control of New Hampshire Statues (Chapter 130) to identify areas of LBP that will require abatement under Chapter 130 if residential or child occupied reuse is planned. All paint containing lead will be considered LBP for purposes of management according to the OSHA Lead in Construction Standards (29 CFR 1926.62).

4. RESULTS

The following subsections present the results of the data collected during the field work portion of this Phase II ESA.

4.1 SOIL SCREENING RESULTS

Soil was screened in the field for VOCs using the jar headspace methodology. Screening results ranged from non-detect (0.0 ppm_v) to 43.6 ppm_v. Soil screening results are provided on **Table 1** and in the soil boring logs included in **Appendix C**.

A variety of fill types were observed at the surface and in the subsurface. Fills were observed to contain wood, bricks, coal, concrete/mortar, ash, cinder, and metal shavings. Fill was observed in generally at depths between 5 and 9 feet. Building debris including brick and concrete and degraded asphalt were also observed closer to the surface (0 to 4 feet) in the southeastern portion of the Site where some erosion had occurred and where former building foundations were present.

4.2 SOIL ANALYTICAL RESULTS

Requested analyses are summarized in **Table 1**. Soil analytical results are summarized on **Table 7**, and complete laboratory analytical reports are provided in **Appendix E**. Soil analytical exceedances are also summarized on **Figure 5**.

VOCs

Naphthalene was detected in sample CA-SB-4 (0-2); however, the result was below the NHDES SRSs. No other VOCs were detected above the laboratory reporting limits in samples collected from the Site.

SVOCs

Several SVOCs, specifically polycyclic aromatic hydrocarbons (PAHs), were detected in soil samples collected from the Site. Exceedances of the NHDES SRSs occurred for the following SVOCs in the listed samples:

- Benzo(a)anthracene: CA-SB-3 (2-4), CA-SB-4 (0-2), CA-SB-7 (4-6), and CA-SS-5 (0-1.5)
- Benzo(b)fluoranthene: CA-SB-7 (4-6) and CA-SS-5 (0-1.5)
- Benzo(a)pyrene: CA-SB-2 (4-6), CA-SB-3 (2-4), CA-SB-4 (0-2), CA-SB-7 (4-6), CA-SS-4 (0-1.5), and CA-SS-5 (0-1.5)
- Indeno(1,2,3-cd)pyrene: CA-SS-5 (0-1.5)
- Dibenzo(a,h)anthracene: CA-SS-5 (0-1.5)

Other detected SVOC results were below their respective NHDES SRSs.

TPH

Total petroleum hydrocarbons (TPH) were detected above the laboratory reporting limit in samples CA-SB-7 (4-6) and CA-SB-8 (6-8); however, results were below the NHDES SRS.

PCBs

PCB results were below the laboratory reporting limits in soil samples collected from the Site.

RCRA 8 Metals

Arsenic, barium, cadmium, chromium, lead, and mercury were detected above the laboratory reporting limits in soil samples collected from the Site. The following metals were detected at concentrations exceeding their respective NHDES SRSs in the listed samples:

- Arsenic: CA-SB-4 (0-2)
- Lead: CA-SB-3 (2-4)

Other detected RCRA 8 metals results were below their respective NHDES SRSs.

4.3 GROUNDWATER ANALYTICAL RESULTS

Groundwater analytical results are summarized on **Table 8**, and the complete laboratory analytical report is provided in **Appendix E**.

VOCs

VOC results were below the laboratory reporting limits in groundwater samples collected from the Site.

SVOCs

PAHs, fluoranthene, pyrene, and benzo(a)pyrene were detected in groundwater samples CA-MW-4. Of these detections, benzo(a)pyrene exceeded the NHDES AGQS; however, the detection is attributed to turbidity in the sample (approximately 39 NTUs) and contaminated soil (i.e. suspended solids in the groundwater) is not considered representative of dissolved compounds. Therefore, the three detected SVOC results are considered to be below the applicable NHDES AGQS.

Metals

Barium was detected in groundwater samples CA-MW-1, CA-MW-2, CA-MW-4, CA-MW-5, and CA-MW-8; however, results were below the NHDES AGQS. Other metal concentrations were below the laboratory reporting limits.

4.4 ASBESTOS RESULTS

Asbestos was identified in samples CA-ACM-3 through CA-ACM-10, CA-ACM-12 and CA-ACM-13 collected from the retail store, the two-story building's boiler room, and the lower

building. These samples were collected from window glazing, thermal system insulation (TSI), boiler gaskets, floor tiles, floor tile mastic, and ceiling tiles.

At the owner's request, ACM was surveyed exclusively in the retail store, the boiler room of the two-story building, and in the lower building due to employee/tenant sensitivities.

A summary of asbestos samples collected from the Site and results is provided in **Table 3**, sample locations are shown on **Figure 4**, and the laboratory report is provided in **Appendix E**.

4.5 PCBS-CONTAINING BUILDING MATERIALS

PCBs were detected in samples from the retail store, the boiler room of the two-story building, and in the lower building. Results were below the 40 CFR 761.3 definition of PCB bulk product waste (i.e., 50 mg/kg threshold) requiring removal; however, the results of CA-PCB-1, CA-PCB-2, CA-PCB-4 and CA-PCB-6 through CA-PCB-10 exceeded 1 mg/kg; therefore, if removed from use would require proper disposal.

Building material sample locations are show on **Figure 4**. A summary of samples collected and results is provided in **Table 4**, and the complete laboratory analytical report is included in **Appendix E**.

4.6 LBP SCREENING RESULTS

Painted surfaces screened in the retail store, the boiler room of the two-story building, and in the lower building did not contain detectable concentrations of lead exceeding 1 milligram per square centimeter (mg/cm^2). Trace lead was detected in paint on a green painted steel beam in the lower building at a concentrations of 0.09 mg/cm^2. A summary of LBP screening results is provided in **Table 5**.

4.7 UNIVERSAL/HAZARDOUS/OTHER WASTE INVENTORY

Universal/hazardous/other wastes inventoried at the Site included fluorescent light fixtures, mercury thermostats, exit signs, emergency lights, paint cans and buckets, compressed gas cylinders, and an oil can. A summary of the materials inventoried with their quantities is provided in **Table 6**.

4.8 DATA USABILITY ASSESSMENT

The contracted laboratory, ARA, provided analytical data in accordance with Credere's New Hampshire Generic Quality Assurance Project Plan (QAPP, RFA#14123). The laboratories provided the following information in analytical reports:

- Data results sheets
- Method blank results
- Surrogate recoveries and acceptance limits

- Duplicate results/acceptance limits
- Spike/duplicate results/acceptance limits
- Laboratory control sample results
- Description of analytical methods and results
- Other pertinent results/limits as deemed appropriate

As outlined in the SSQAPP, at the completion of the field tasks and upon 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 complete Data Usability Assessment (DUA) is included in **Appendix F**.

In general, the data reviewed for this project are usable for making project decisions. Data are considered representative with regard to the sample design as the highest detected concentrations were generally found in the samples collected from the most obviously contaminated soil (i.e., the fill material). Data qualified as estimated (UJ) were evaluated relative to the respective regulatory criteria. Generally, the qualification is not expected to alter conclusions drawn from the data.

5. UPDATED CONCEPTUAL SITE MODEL

The conceptual site model (CSM) was updated using the results of this Phase II ESA and prior reports, and will be updated in subsequent reports as new information becomes available. This CSM includes a description of the Site, Site history, physical setting of the Site, source areas and contaminants of concern (COCs), migration pathways, exposure pathways, and potential human and environmental receptors.

5.1 SITE DESCRIPTION

A detailed Site description consisting of Site use, Site location as depicted on **Figure 1**, and Site utilities is included in **Section 2.1**.

5.2 SITE HISTORY

A description of Site history including historical information as it relates to current environmental conditions at the Site is included in **Section 2.2**.

5.3 PHYSICAL SETTING

Topography

Based on Credere's observations and the United States Geological Survey (USGS) Topographic Map of the Laconia Quadrangle, New Hampshire, topography at the Site slopes to the south. The northern edge of the Site slopes steeply south toward the developed area. The developed portion of the Site is relatively flat and then the southern portion of the Site slopes steeply toward the shoreline of Lake Opechee. Elevation at the Site is approximately 500 feet above mean sea level. An excerpt from the USGS map has been included as **Figure 1**.

Geology

Surficial Geology

Surficial soils at the Site were observed to consist primarily of sand with varying amounts of gravel and some areas of silt. Fill materials consisting of wood, bricks, coal, concrete/mortar, ash, cinder, and metal shavings were observed. Fill was observed generally at depths between 5 and 9 feet.

Building debris including brick and concrete and degraded asphalt were also observed closer to the surface (0 to 4 feet) in the southeastern portion of the Site where some erosion had occurred and where former building foundations were present.

It is presumed the deeper fill was likely formerly the surface and the Site was filled overtime prior to construction of the current Site buildings and parking lots. Building debris closer to the surface can be attributed to the removal of several former large mill buildings.

Bedrock Geology

According to the Bedrock Geologic Map of New Hampshire, bedrock beneath the Site consists of metamorphic Lower Silurian aluminous schist, quartzite, calc-sillicate granofels and bi-modal metavolcanic rocks of the Upper Rangeley Formation. No bedrock outcrops were observed at the Site. Refusal was encountered at 8.9 feet and 11 feet in borings CA-SB-6 and CA-SB-7 respectively; however, boring CA-SB-5 was advanced to 25 feet without refusal. If bedrock was encountered in CA-SB-6 and CA-SB-7, it is presumed to slope steeply towards the lake.

Hydrology

The nearest surface water body to the Site is Opechee Lake, which is located along the southern boundary of the Site. Stormwater likely infiltrates permeable areas of the Site or flows overland to Opechee Lake.

Groundwater was encountered at depths ranging from 3.55 feet below the top of riser in CA-MW-3 in the southern portion of the Site to 19.50 feet below the top of riser in CA-MW-8in the eastern portion of the Site. A groundwater contour map was prepared based on the depth to water versus the top of riser surveyed relative elevations. Groundwater was mapped to slope steeply to the south in the upper elevation portion of the Site and level off to nearly flat, and likely in equilibrium with the lake, in the southern portion of the Site. Therefore, groundwater flows generally to the south. A groundwater contour map is provided as **Figure 3**.

5.4 SOURCE AREAS & CURRENT CONTAMINANTS OF CONCERN

Based on the results of this Phase II, the current areas of concern (AOCs) and COCs are listed below.

Source Areas

The following AOCs were identified at the Site based on possible sources of contamination:

- Source Area #1 – Comingled fill material
- Source Area #2 – The Site buildings

COCs

Current COCs relative to the above source areas include the following:

- PAHs in soil
- Arsenic and lead in soil
- Hazardous building materials including asbestos and PCBs-containing materials and certain components of universal/hazardous/other regulated wastes

VOCs, PCBs in soil and groundwater, and unlisted metals and SVOCs have been dismissed as COCs at the Site.

5.5 MIGRATION PATHWAYS & EXTENT OF CONTAMINATION

PAHs

PAH exceedances were detected in soil samples collected from areas of observed comingled fill material; however, no distinct layers of urban-like fill were observed at the Site. Since observed fill components were observed at varying depths and sporadically across the Site, the extent of PAHs cannot be delineated based on the currently available data.

PAHs, specifically benzo(a)pyrene, were also detected at low levels in groundwater in exceedance of the AGQS. This low level exceedance can likely be attributed to PAHs bonded to suspended organics as indicated by the elevated turbidity at the time of sampling. Additionally, PAHs were not detected above the laboratory reporting limit in other wells at the Site where PAHs were similarly detected in soil. It is Credere's opinion that if this sample was recollected at a lower turbidity, this exceedances would be eliminated; therefore, PAHs in groundwater are not considered a COC.

Therefore, since groundwater is not considered to be impacted, PAHs do not appear to be leaching from impacted soil to groundwater and migration is therefore, not likely. However, disturbance of the impacted soil may result in wind or stormwater erosion and mobilization of PAHs in soil.

Arsenic and Lead

Arsenic and lead were detected above the NHDES SRSs in samples collected from intervals containing comingled coal ash and building debris. Based on the groundwater analytical results, metals do not appear to be leaching from impacted soil to groundwater and migration is, therefore, not likely. However, similar to PAHs, disturbance of the impacted soil may result in wind or stormwater erosion and mobilization of metals in soil.

Hazardous Building Materials

ACM was identified throughout the lower building and two-story building boiler room, and in a few windows of the retail store. The extent of ACM is confined to in/on these building; however, these COCs have the potential to become air-borne if not properly managed during building renovations/demolition. The approximate quantities of ACM are as follows:

Retail Store

- White exterior window glazing on three windows

Two-Story Building

- 300 square feet of boiler insulation and mud fittings
- 20 linear feet of pipe wrap
- 0.5 square feet of boiler gasket

Lower Building

- 7,800 square feet of brown and off-white 12 inch x 12 inch floor tile and black mastic
- 100 linear feet of exterior window glazing on twelve windows
- 300 square feet of off-white 12 inch x 12 inch and mastic
- 2,300 square feet of ceiling tile

PCBs were identified in paints, mastic and caulk in the surveyed building. If removed from use, this paint will require proper disposal at an appropriately licensed facility.

Universal/hazardous/other regulated wastes at the Site include fluorescent light fixtures, mercury thermostats, exit signs, emergency lights, paint cans and buckets, compressed gas cylinders, and an oil can. Certain components of these wastes including mercury and the contents of containerized waste (e.g., paints, oil, etc.) represent COCs. In their current state, these materials are stable; however, could result in releases if not properly handled.

The extent of hazardous building materials in the Madeira office/warehouse building and in the remainder of the two-story building is not known as these areas have not been assessed.

5.6 EXPOSURE PATHWAYS AND POTENTIAL RECEPTORS

Exposure pathways describe how a human or environmental receptor comes into contact with contaminants that may be present at the Site. Exposure pathways at the Site include the following:

Dermal Absorption:	Exposure via dermal absorption occurs when receptors are exposed to chemical concentrations present in soil, groundwater, surface water, or hazardous building materials through direct contact with the skin.
Active Ingestion:	The active ingestion pathway represents exposure which may occur through the active ingestion of contaminant concentrations via a drinking water supply well, through agricultural products, or through direct consumption of soil (e.g., typically by children or construction workers employing poor hygiene).
Incidental Uptake:	This pathway is applicable when receptors may incidentally inhale or ingest impacted media in the form of contaminated dust, chips, or airborne asbestos fibers.

Potential Receptors are categorized by duration of exposure and intensity of use at the Site. The receptor categories described in the CSM include the following:

Resident:	The residential receptor is defined by high durational exposure and high intensity usage which may occur through gardening, digging, and recreational sports. This group includes the occupants of a residential property or a residential neighborhood, or a daycare.

Recreational or Park User:	Park users are characterized by low duration, i.e. less than two hours per day, and low intensity usage such as that which would occur during activities such as walking, shopping, and bird watching. Trespassers are also included in this receptor category.
Commercial Workers:	Commercial receptors are those which are present at the Site for long durations but with low intensity exposure such as indoor office workers.
Excavation or Construction Worker:	Excavation or construction workers are present at the Site for short durations though intensity of use is high, such as during non-routine activities including construction or utility work. Examples include utility and construction contractors and landscapers.
Terrestrial and Aquatic Biota:	These receptors include flora and fauna which may be exposed to contaminants in their respective environments.

5.7 CSM SUMMARY

COCs at the Site include PAHs, arsenic, and lead in soil, which could be attributed to comingled fill material at the Site. Groundwater results are considered to be below the applicable NHDES AGQS; therefore, leaching to groundwater does not appear to be occurring and impacted soil is considered stable with few routes of exposure under current Site usage. However, if redevelopment were to occur or if use were to change to a more publicly accessible use (e.g., mixed use commercial and residential or a park), impacted soil may become exposed and exposure may increase.

Based on the planned continued use of the Site for commercial purposes and possible future mixed use redevelopment, potential receptors at the Site include construction/excavation workers during redevelopment and utility work, employees and patrons of future commercial businesses, possible future residents, park users, and/or trespassers.. Based on these receptors, the expected exposure pathways to COCs include active ingestion by construction workers using poor hygiene practices during construction or by future residents through use of onsite vegetable garden; and dermal absorption through direct contact with impacted soil or incidental uptake in the form of dust by construction workers, patrons, residents, trespassers, or commercial workers.

Due to the proximity to Opechee Bay, there is potential for erosion of contaminated soil to the lake, particularly if proper soil management practices are not employed during construction. This may result in exposure of terrestrial and aquatic biota to COCs. PAHs and metals in soil eroding to the lake could have an impact to aquatic biota through active ingestion of contaminated soil particles or other organisms where bioaccumulation has occurred.

6. CONCLUSIONS

We have performed a Phase II ESA at Madeira Property located at 42 Franklin Street, 27 Bayside Court and 30 Bayside Court in Franklin, New Hampshire, in general conformance with the scope and limitations of ASTM E 1903-11 and for the following objectives:

- Assess the areas of former or suspect UST (RECs #1, #2, and #3)
- Assess the possible discharge location of the former boiler room sump of the two-story building (REC #5)
- Assess surface soil throughout the Site for impacts from historical fires (REC #6) and from historical use of the Site and surrounding area (REC #8)
- Assess the former canal for possible releases and filling (REC #7)
- Evaluate the presence and quantities of hazardous building materials throughout the lower building, retail store, and two-story building boiler room (REC #4 and Environmental Finding #1)

Per Madiera's request, hazardous building materials within the Madeira office/warehouse and most of the two-story building were not assessed at this time due to employee/tenant sensitivities.

Credere's conclusions considering the cumulative work conducted in relation to the identified environmental condition and the investigation results are presented below:

REC #1 – Potential impacts from a historical UST at the retail store: DISMISSED

Building plans from 1973 were reviewed in the City of Laconia Code Enforcement Office during the Phase I ESA that depicted a fill pipe located near the entrance to the retail store. That location is currently covered in asphalt pavement and landscaping and no visual evidence of a UST was previously observed at the Site. The geophysical survey completed during the Phase I ESA identified an anomaly consistent with piping and disturbed soil, which may have been remnant UST piping and a tank grave. The piping extended towards the retail store building; however, the remaining piping and possible tank grave were located offsite within the City of Laconia right-of-way. No closure documentation or assessment of environmental conditions was identified during the Phase I ESA records review; therefore, undocumented contamination may have been present.

Soil boring CA-SB-7 was advanced on the property line as close to the UST as the boundary allowed. No visual or olfactory evidence of contamination was observed and PID readings did not indicate the presence of petroleum impacts migrating onto the Site or having been discharged from the fill pipe location. A soil sample collected from the groundwater interface indicated the presence of low level PAHs and TPH. TPH was below the NHDES SRS; however, PAHs exceeded the SRSs for three compounds, which are likely attributed to coal ash and cinders observed in the soil sample and not from a petroleum release.

Based on the lack of petroleum related concentrations exceeding the NHDES SRSs, it is Credere's opinion that no significant release of petroleum occurred from this UST and this REC is dismissed.

REC #2 – Threat of release from an unregistered UST at the Madeira office/warehouse building: INCONCLUSIVE; however, no evidence of a release was identified

A 1976 Sanborn map reviewed during the Phase I ESA depicted a 1,000-gallon UST located near the southeast corner of the Madeira office and warehouse building. This UST was not registered and no removal documentation was identified during the Phase I ESA records review. This area is currently a manicured garden within a retaining wall between a parking area and the building. The geophysical survey identified an unclear anomaly that was hindered by rebar in the sidewalk and could not be reproduced on subsequent passes. Based on the initial possible anomaly and lack of removal documentation, a UST was suspected to still be present.

Soil boring/monitoring well CA-SB-8/CA-MW-8 is located downgradient of the suspect UST. Low levels of TPH and PAHs were detected in the soil sample; however, results were below the NHDES SRSs. Petroleum related compounds were not detected above the laboratory reporting limits in the groundwater sample collected from CA-MW-8. Therefore, a release from the suspect UST does not appear to have occurred based on the available data.

The suspect UST may still be present and would continue to be a threat of release at the Site. Due to the ambiguity of its presence, this REC is inconclusive; however, no evidence of a release was identified.

REC #3 – Threat of release from an unregistered UST northeast of the two-story building: DISMISSED

A 1976 Sanborn map reviewed during the Phase I ESA depicted a 2,000-gallon UST off the northeast corner of the two-story building. Additionally, a 1986 site assessment report indicated a 5,000-gallon UST was located in this area. Test pits were previously excavated and no evidence of contamination was identified at the time of the 1986 assessment; however, the actual presence of the UST was not confirmed. It was recommended the UST be registered; however, based on NHDES's files, the registration was never completed.

The September 2014 geophysical survey identified an anomaly surrounding a telephone pole above the retaining wall. The anomaly was consistent with the hyperbolic reflection of a UST; however, a telephone pole was installed through the anomaly. No other anomalies characteristic of a UST were observed in the area northeast of the two-story building.

Had the UST been punctured during installation of the telephone pole, any remaining contents would have been released; therefore, the UST no longer represents a threat of release. Soil boring CA-SB-6 was installed downgradient of the anomaly and a soil sample was collected from the groundwater interface. A PID reading of 43.6 ppm_v was recorded; however, analytical results were below the NHDES SRSs.

Based on the elimination of the threat of release and analytical results below the laboratory reporting limits, the threat of release from the UST is dismissed.

REC #4 – Release of ACM in waste form in the boiler room of the two-story building: ACM CONFIRMED; however, justification for the REC is DISMISSED

The two-story building was previously heated by a fuel oil fired boiler located in the former boiler room. The boiler insulation was observed to be sloughing off the underside of the boiler to the concrete floor. The boiler insulation was sampled and confirmed to be ACM; however, due to lack of a pathway to the environment and per the definition of a REC, a release to the environment has not occurred and this REC is dismissed.

REC #5 – Conditions indicative of a release from the former boiler room sump: DISMISSED

Credere observed a concrete pit and sump located in the former boiler room of the two-story building. The former boiler room reportedly regularly floods with storm water and the sump discharges to an onsite drywell of unknown location. Evidence of flooding was observed in the form of dried sediment on the floor.

Based on the proximity of the sump to the former fuel oil boiler, any historical unreported releases of oil from the boiler or failure of piping may have resulted in a release to the boiler room floor and ultimately the sump. A subsequent flooding event could also have washed spills or releases to the onsite drywell.

The geophysical survey did not indicate evidence of piping exiting the building in the area of the boiler room that may be running to the reported dry well. The Site manager indicated his suspicion was that the dry well was located under the parking lot south of the two-story building. Soil boring/monitoring well CA-SB-5/CA-MW-5 was installed in the suspected location of the dry well. With the exception of presumed naturally occurring metals, analytical results for soil and groundwater were below the laboratory reporting limits. Therefore, a possible release from the boiler room sump to an onsite dry well is dismissed.

REC #6 – Contaminants associated with The Great Fire of 1903 and Sweaterville Fire that occurred between 1948 and 1976: CONFIRMED

According to local history, in 1903, a fire started in the H.H. Wood & Company Oriental Hosiery Mill, which burned the entire Site and the Town of Lakeport. According to Sanborn maps, the Site included a hosiery mill, a window glazing factory, a grist mill and a hydro-electric power plant at the time of the fire. Possible contaminants released from these buildings may have included industrial chemicals, dyes, asbestos, coal and oils in addition to the PAHs deposited as a product of combustion and other building material debris from the fire. A second fire occurred at the Site at an unknown date sometime between 1948 and 1976 when the Sweaterville mill burned down, which would have added additional PAHs and building debris to the Site.

PAHs were detected above the laboratory reporting limits CA-SB-1 through CA-SB-4, CA-SB-7 and CA-SB-8 and in four of five surface soil samples. In each boring, some form of anthropogenic fill was observed, which is the presumed source of PAHs. Coal ash, coal fragments, and cinders were observed in several borings and in surface soil sample locations (in addition to degraded asphalt). The PAHs cannot be attributed specifically to the fire debris; however, the presence of cinders indicates the fire debris is at least a partial source. Therefore, impacts associated with historical fire debris are confirmed, although comingled coal and cinders are not required to be removed by NHDES; however, will require proper management as a solid waste if removed from the Site.

REC #7 – Possible historical releases to the former canal and filling of the canal with an unknown source of fill: DISMISSED

A flume and canal was present on the Site from at least 1887 until approximately the 1980s. Initially, the canal ran the majority of the length of the Site along the shoreline and was used for power generation and for manufacturing purposes. The canal was later shortened to just the eastern portion of the Site. During Credere's time onsite, the Site manager, Ted Blaisdale, indicated the canals were elevated sluices connected to the buildings and the turn wheel and did not have below grade components. CA-SB-3 and CA-SB-4 were intended to assess subsurface impacts associated with filling the canal; however, new knowledge of the canals being elevated eliminated the potential for subsurface filling with an unknown source of fill and no evidence of substantial filling was observed near the suspected canal/sluice locations, therefore, this REC is dismissed. However, soil borings CA-SB-3 and CA-SB-4 were still advanced and soil samples were collected to further assess the presence of impacts associated with RECs #6 and #8.

REC #8 – Surface soil and sediment impacts associated with historical use of the Site and surrounding area: CONFIRMED

The Site has been used for industrial manufacturing since its first development in the mid-1800s. The Site was occupied by a lace mill, several hosiery mills, a lumber mill and window sash manufacturer, a grist mill, a hydro-electric power plant, and a copper heating coil manufacturing company. The approximately 150 year duration of industrial manufacturing at the Site has the potential to have impacted environmental conditions throughout the Site.

PAHs were detected above the laboratory reporting limits in CA-SB-1 through CA-SB-4, CA-SB-7 and CA-SB-8 and in four of five surface soil samples and lead and arsenic were detected in CA-SB-3 and CA-SB-4, respectively, above the NHDES SRSs. In each sample location some form of anthropogenic fill was observed, which is the presumed source of PAHs and metals. Building debris, coal ash, coal fragments, wood, cinders, and degraded asphalt were observed in several borings and surface samples. The PAHs and metals cannot be attributed specifically to certain historical uses based on the available data; however, the historical use of the Site is presumed to be at least a partial source. Therefore, impacts associated with historical use are confirmed; although comingled coal and cinders are not required to be removed by NHDES; however, will require proper management as a solid waste if removed from the Site.

Environmental Finding #1 – Observed possible hazardous building materials throughout the Site: CONFIRMED

The lower building, two-story building boilers room, and retail store were surveyed for the presence of hazardous building materials including ACM, LBP, and PCB-containing materials. Sampling of suspect building materials indicated the presence of ACM in window glazing, TSI, gaskets, floor tiles, mastic, and ceiling tiles. PCBs were found in paint, mastic, and caulk at total PCB concentrations ranging from 1.1 to 5.4 mg/kg. PCBs at these concentrations are not regulated by TSCA; however, will require proper handling and disposal if removed from use. LBP was not found on any screened surfaces within the buildings surveyed. Certain components of universal/hazardous/other regulated wastes including mercury and the contents of containerized waste (e.g., paints, oil, etc.) are COCs. In their current state, these materials are stable; however, could result in releases if not properly handled. The Madeira office/warehouse and the remainder of the two-story building were not surveyed during this Phase II ESA per Madeira's request.

Based on the documented presence of ACM and PCBs in building materials, the presence of hazardous building materials is confirmed.

7. RECOMMENDATIONS

Based on the findings and conclusions of this investigation, Credere makes the following recommendations:

- Assess the remainder of the two-story building and the Madeira office/warehouse building for the presence of hazardous building materials prior to renovation/redevelopment of the Site
- Since PAHs, arsenic, and lead have been attributed to historical fire debris and coal ash, it is Credere's opinion the impacted soil is not required to be removed; therefore, no additional delineation is recommended for PAHs
- Although not required to be removed, the PAH, arsenic, and lead impacted soil still requires management as a solid waste; therefore, a Soil Management Plan should be prepared to facilitate the proper management of PAH and metals impacted soil during any future redevelopment or construction
- Restrict access to the boiler room where damaged ACM is present to prevent exposure to asbestos
- Proper abatement of ACM prior to renovations or demolition of the lower building, two-story building boiler room, or retail store
- Proper handling and disposal of PCB-containing building materials during any future renovations/demolition of the lower building, two-story building boiler room, and retail store, or other areas identified during future HBMS work
- Proper disposal of universal/hazardous and other regulated wastes during/prior to redevelopment

8. LIMITATIONS

This report has been prepared by Credere for the LRPC Brownfields Assessment program in order to provide LRPC or other project stakeholders with information upon which it can rely concerning the existence or likely existence of various environmental contaminants on or adjacent to the property evaluated.

This report does not reflect:

1. Conditions in untested areas and the characteristics of untested media.
2. Variations in chemical concentrations that can occur between sample locations.
3. The total understanding of historical Site activities, uses, equipment, or fixtures that may have contributed or are currently contributing to Site contamination, particularly relating to building material history.
4. Knowledge of the potential presence of compound sources other than what was surficially visible at the time of survey performance.
5. The potential presence of analytes that were not analyzed or that may be present below minimum laboratory reporting limits for the methods tested.
6. Potential variation in the Site conditions that may have occurred at a time other than when the Site survey was completed.

In the event that any conditions different from those described herein are encountered at a later time, Credere requests an opportunity to review such differences and modify the assessment and conclusions of this report. This report was prepared expressly for the purpose described. The information in this report may not be suitable for any other use without adaptation for the specific purpose intended. Any such reuse of this report, without adaptation, shall be at the sole risk and liability of the party undertaking the reuse.

9. SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

The following individual(s) meet the qualifications for individuals completing or overseeing all appropriate inquiries, and possess sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding the existence of environmental conditions on the Site. Any work completed on this ESA by an individual who is not considered an environmental professional was completed under the supervision or responsible charge of the environmental professional.

Allison Drouin, PG
Project Geologist

Judd Newcomb, CG, PG
Project Manager/Geologist

Rip Patten, PE, LSP
Vice President

Theresa Patten, PE
President

FIGURES

DRAWN BY: **MAK**	DATE: **6/23/2015**
CHECKED BY: **ASD**	PROJECT: **14001247**

Credere Associates, LLC
776 MAIN STREET
WESTBROOK, MAINE
Tel. 207.828.1272
Fax 207.887.1051
WWW.CREDERELLC.COM

FIGURE 1
SITE LOCATION PLAN

MADEIRA PROPERTY
42 FRANKLIN STREET,
27 AND 30 BAYSIDE COURT
LACONIA, NEW HAMPSHIRE

1,000 0 2,000
Feet
1 INCH = 2,000 FEET

N

CREDERE

Topographic Map Data Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User

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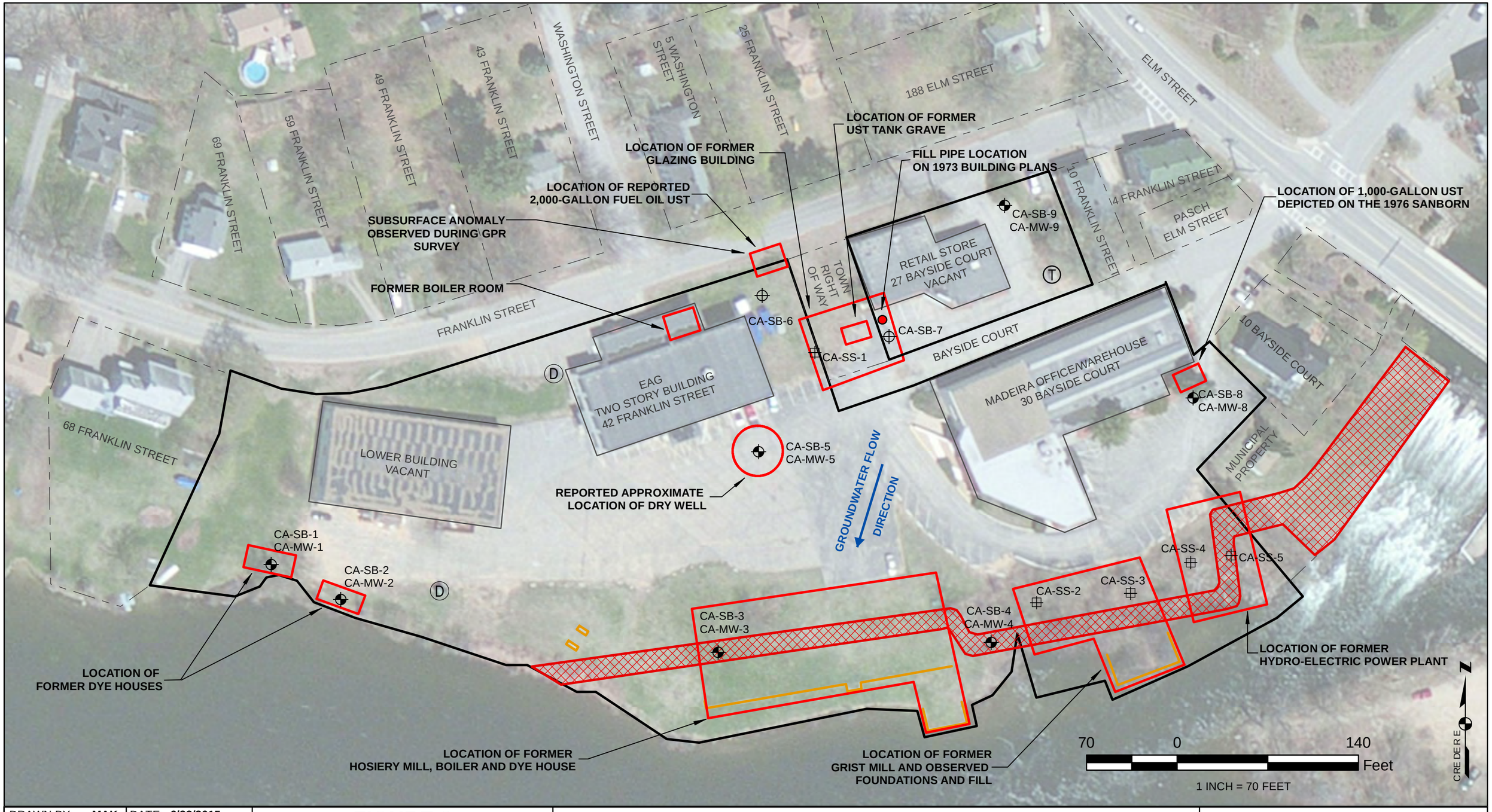

DRAWN BY: **MAK**	DATE: **6/23/2015**
CHECKED BY: **JRN**	PROJECT: **14001247**

Credere Associates, LLC

776 MAIN STREET
WESTBROOK, MAINE
Tel. 207.828.1272
Fax 207.887.1051
WWW.CREDERELLC.COM

FIGURE 2
SOIL AND GROUNDWATER SAMPLE LOCATION PLAN

MADEIRA PROPERTY
42 FRANKLIN STREET, 27 & 30 BAYSIDE COURT
LACONIA, NEW HAMPSHIRE 03246

- AREA OF POTENTIAL CONCERN
- APPROXIMATE AREA OF FORMER FLUME AND CANAL
- POINT OF POTENTIAL CONCERN
- SOIL BORING AND MONITORING WELL
- SOIL BORING
- SURFACE SOIL
- OBSERVED FORMER FOUNDATION
- SITE BOUNDARY
- PARCEL BOUNDARY
- BUILDING BOUNDARY
- (T) ELECTRICAL TRANSFORMER
- (D) SOLID WASTE DUMPSTER

NOTES:
1. EXISTING CONDITIONS FEATURES SHOWN ON THIS PLAN ARE APPROXIMATE AND ARE BASED ON INFORMATION OBTAINED FROM THE CITY OF LACONIA GIS, ESRI ORTHO IMAGES, AND FIELD WORK COMPLETED ON MAY 7 AND 8, 2015.

Ortho Image Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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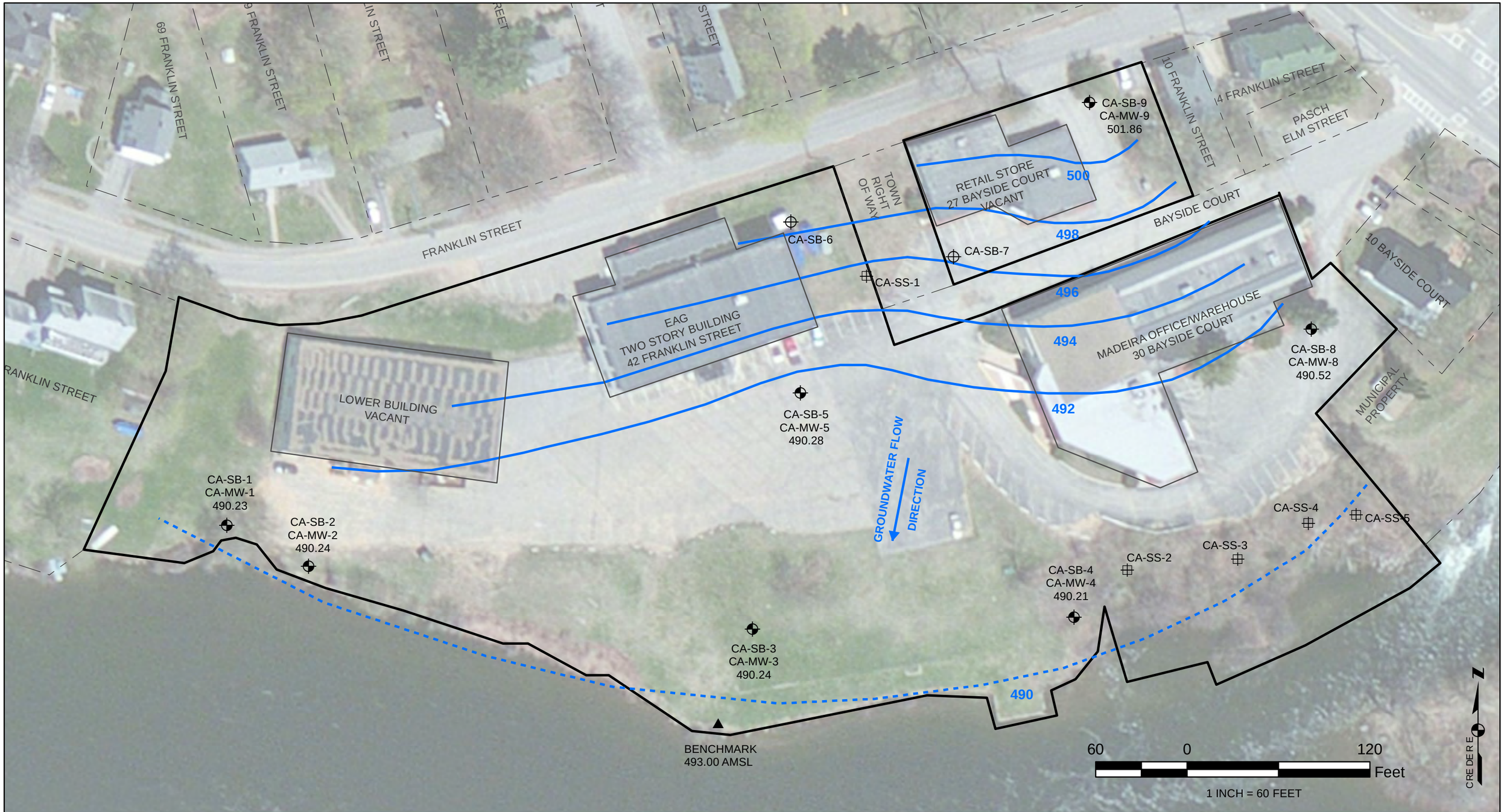

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Credere Associates, LLC
776 MAIN STREET
WESTBROOK, MAINE
Tel. 207.828.1272
Fax 207.887.1051
WWW.CREDERELLC.COM

FIGURE 3
GROUNDWATER CONTOUR MAP

MADEIRA PROPERTY
42 FRANKLIN STREET, 27 & 30 BAYSIDE COURT
LACONIA, NEW HAMPSHIRE 03246

- SOIL BORING AND MONITORING WELL
- SOIL BORING
- SURFACE SOIL
- BENCHMARK
- APPROXIMATE GROUNDWATER CONTOUR LINE
- ESTIMATED GROUNDWATER CONTOUR LINE
- SITE BOUNDARY
- PARCEL BOUNDARY
- BUILDING BOUNDARY

NOTES:
1. EXISTING CONDITIONS FEATURES SHOWN ON THIS PLAN ARE APPROXIMATE AND ARE BASED ON INFORMATION OBTAINED FROM THE CITY OF LACONIA GIS, ESRI ORTHO IMAGES, THE SITE RECONNAISSANCE PERFORMED ON AUGUST 19, 2014, AND FIELD WORK COMPLETED ON MAY 7 AND 8, 2015.
2. GROUNDWATER CONTOURS BASED ON GAUGING DATA COLLECTED ON MAY, 27, 2015

Ortho Image Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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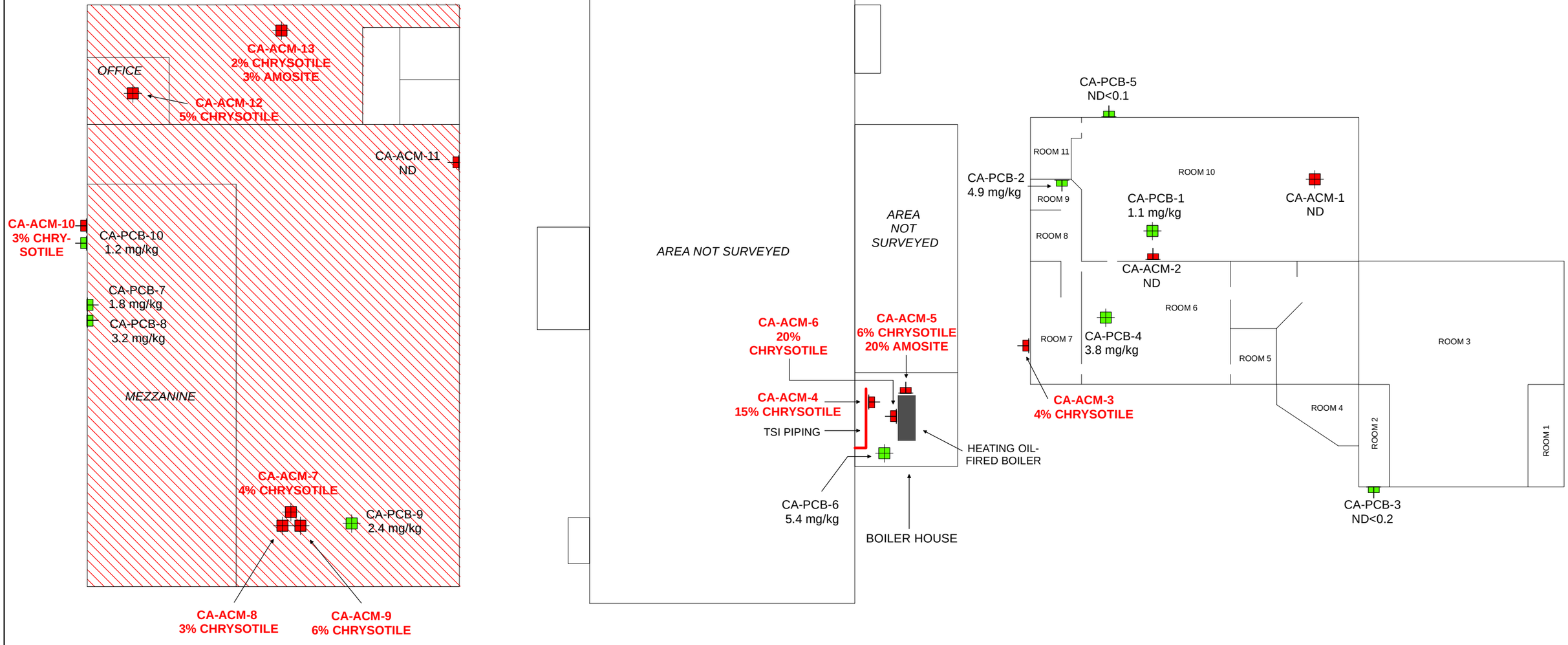
LOWER BUILDING

EAG
TWO-STORY BUILDING

RETAIL STORE



DRAWN BY: **MAK**	DATE: **6/23/2015**
CHECKED BY: **JRN**	PROJECT: **14001247**

Credere Associates, LLC
776 MAIN STREET
WESTBROOK, MAINE
Tel. 207.828.1272
Fax 207.887.1051
WWW.CREDERELLC.COM

FIGURE 4
HAZARDOUS BUILDING MATERIALS SAMPLE LOCATION PLAN

MADEIRA PROPERTY
42 FRANKLIN STREET, 27 & 30 BAYSIDE COURT
LACONIA, NEW HAMPSHIRE 03246

ASBESTOS SAMPLE

PCBs IN BUILDING MATERIALS SAMPLE

ASBESTOS CONTAINING FLOOR TILE AND MASTIC

NOTES:
1. EXISTING CONDITIONS FEATURES SHOWN ON THIS PLAN ARE APPROXIMATE AND ARE NOT SHOWN TO SCALE. THE FIGURE IS BASED ON INFORMATION OBTAINED FROM THE CITY OF LACONIA GIS AND FIELD WORK COMPLETED ON MAY 7, 2015.
2. MADEIRA OFFICE/WAREHOUSE AND INDICATED AREA OF TWO-STORY BUILDING WAS NOT SURVEYED AT THIS TIME PER MADEIRA'S REQUEST.
3. A LEAD DETERMINATION WAS PERFORMED AT THE SITE AND THERE WERE NO DETECTIONS OBSERVED. SEE TABLE 5 FOR MORE INFO.

Ortho Image

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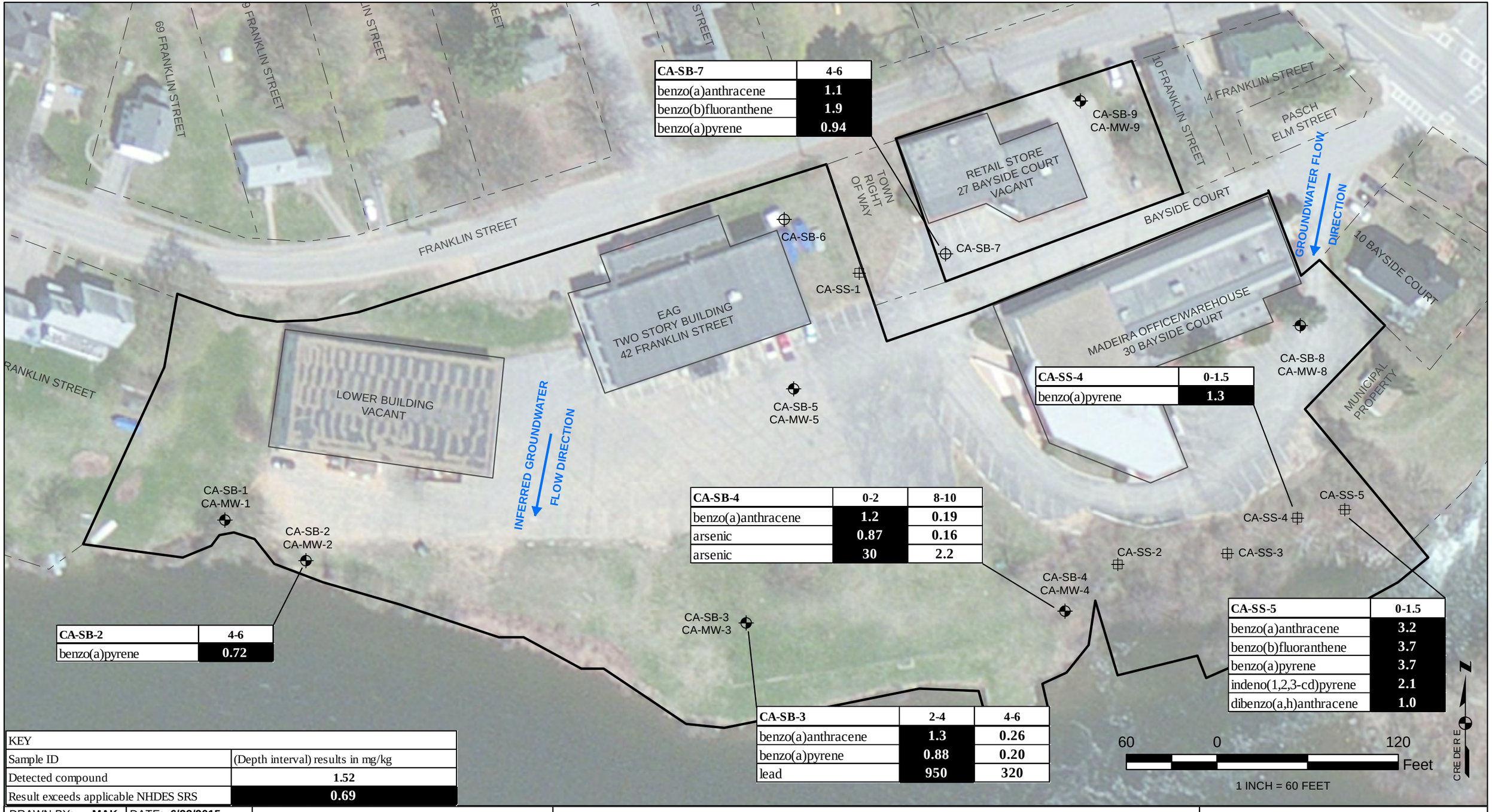

CA-SB-7	4-6
benzo(a)anthracene	1.1
benzo(b)fluoranthene	1.9
benzo(a)pyrene	0.94

CA-SS-4	0-1.5
benzo(a)pyrene	1.3

CA-SB-4	0-2	8-10
benzo(a)anthracene	1.2	0.19
arsenic	0.87	0.16
arsenic	30	2.2

CA-SS-5	0-1.5
benzo(a)anthracene	3.2
benzo(b)fluoranthene	3.7
benzo(a)pyrene	3.7
indeno(1,2,3-cd)pyrene	2.1
dibenzo(a,h)anthracene	1.0

CA-SB-2	4-6
benzo(a)pyrene	0.72

CA-SB-3	2-4	4-6
benzo(a)anthracene	1.3	0.26
benzo(a)pyrene	0.88	0.20
lead	950	320

KEY	
Sample ID	(Depth interval) results in mg/kg
Detected compound	1.52
Result exceeds applicable NHDES SRS	0.69

DRAWN BY: MAK	DATE: 6/23/2015
CHECKED BY: JRN	PROJECT: 14001247

Credere Associates, LLC
776 MAIN STREET
WESTBROOK, MAINE
Tel. 207.828.1272
Fax 207.887.1051
WWW.CREDERELLC.COM

FIGURE 5
SUMMARY OF SOIL EXCEEDANCES

MADEIRA PROPERTY
42 FRANKLIN STREET, 27 & 30 BAYSIDE COURT
LACONIA, NEW HAMPSHIRE 03246

- SOIL BORING AND MONITORING WELL
- SOIL BORING
- SURFACE SOIL
- SITE BOUNDARY
- PARCEL BOUNDARY
- BUILDING BOUNDARY

NOTES:
1. EXISTING CONDITIONS FEATURES SHOWN ON THIS PLAN ARE APPROXIMATE AND ARE BASED ON INFORMATION OBTAINED FROM THE CITY OF LACONIA GIS, ESRI ORTHO IMAGES, THE SITE RECONNAISSANCE PERFORMED ON AUGUST 19, 2014, AND FIELD WORK COMPLETED ON MAY 7 AND 8, 2015.

Ortho Image Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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TABLES

Table 1
Soil Sample Summary
Madeira Property, NHDES #201501001
42 Franklin Street, 27 Bayside Court, and 30 Bayside Court
Laconia, New Hampshire

Sample Location	Location Rationale	Maximum PID Field Screening Result (ppm_v)	Sample ID	Requested Analytical Methods	Pertinent Sample Observations
CA-SB-1	To assess possible contamination from former dye houses (REC #8) and to assess impacts from historical use of the Site (REC #8) and historical fires (REC #6)	ND	CA-SB-1 (6-8)	VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A)	"Swampy smell" observed at 6-8 feet bgs, wood observed at 8-9 feet bgs
CA-SB-2		ND	CA-SB-2 (4-6)	VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A)	None
CA-SB-3	To assess releases and industrial fill material in the former canal (REC #7) and to assess impacts from historical use of the Site (REC #8) and historical fires (REC #6)	ND	CA-SB-3 (2-4) CA-DUP	VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	Coal observed at 0-2 feet bgs, brick and concrete/mortar observed 2-4 feet bgs
	To assess potential leaching of contaminants to native material beneath the fill and delineate the extent of contamination associated with the former canal fill (REC #7)		CA-SB-3 (4-6)	VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	
CA-SB-4	To assess releases and industrial fill material in the former canal (REC #7) and to assess impacts from historical use of the Site (REC #8) and historical fires (REC #6)	ND	CA-SB-4 (0-2)	VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	Coal/coal ash observed at 0-4 and 6-8 feet bgs, cinder observed 0-2 feet bgs, brick observed 4-8 feet bgs
	To assess potential leaching of contaminants to native material beneath the fill and delineate the extent of contamination associated with the former canal fill (REC #7)		CA-SB-4 (8-10)	VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	
CA-SB-5	To assess possible contamination from the discharge of the former boiler room sump pump to a potential drywell (REC #5)	ND	CA-SB-5 (4-6)	VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540) TPH (EPA Method 8015C)	None
CA-SB-6	To assess potential releases from the former UST located off the northeast corner of the two-story building (REC #3)	43.6	CA-SB-6 (6-8)	VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) TPH (EPA Method 8015C)	Brick observed 1-2 feet bgs and rusty, weathering observed on sand 8-9 feet bgs
CA-SB-7	To assess potential releases from the former UST located off the southwest corner of the retail store (REC #1)	1.5	CA-SB-7 (4-6)	VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) TPH (EPA Method 8015C)	Coal ash and cinders observed at 4-6 feet bgs
CA-SB-8	To assess potential releases from the suspect UST located off the southeast corner of the Madeira Office and Warehouse building (REC #2)	2.0	CA-SB-8 (6-8)	VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) TPH (EPA Method 8015C) RCRA 8 Metals (EPA Method 6010C & 7470A)	Coal ash observed at 7-8 feet bgs
CA-SB-9	Background subsurface soil sample in a location perceived to be unconnected to any of the RECs identified for the Site.	ND	CA-SB-9 (12-14/12.5)	VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540) TPH (EPA Method 8015C)	Coal fragements observed at 7-8 feet bgs

Table 1
Soil Sample Summary
Madeira Property, NHDES #201501001
42 Franklin Street, 27 Bayside Court, and 30 Bayside Court
Laconia, New Hampshire

Sample Location	Location Rationale	Maximum PID Field Screening Result (ppm_v)	Sample ID	Requested Analytical Methods	Pertinent Sample Observations
CA-SS-1	To assess surface soil impacts from historical use of the Site (REC #8) and historical fires (REC #6) and document surface soil condition in support of Site reuse	NS	CA-SS-1 (0-1.5)	Asbestos (CARB 435/PLM by EPA 600/R-93/116) PAHs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	Some asphalt debris observed on ground surface
CA-SS-2		NS	CA-SS-2 (0-1.5)	Asbestos (CARB 435/PLM by EPA 600/R-93/116) PAHs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	Some asphalt debris observed on ground surface
CA-SS-3		NS	CA-SS-3 (0-1.5)	Asbestos (CARB 435/PLM by EPA 600/R-93/116) PAHs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	Metal shavings observed in fill
CA-SS-4		NS	CA-SS-4 (0-1.5)	Asbestos (CARB 435/PLM by EPA 600/R-93/116) PAHs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	Some brick fragments observed in surface soils
CA-SS-5		NS	CA-SS-5 (0-1.5)	Asbestos (CARB 435/PLM by EPA 600/R-93/116) PAHs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	None

Notes:

REC - Recognized Environmental Condition
ND - None detected
bgs - below ground surface
ppm_v - parts per million by volume
VOCs - Volatile organic compounds
PAHs- Polycyclic aromatic hydrocarbons
SVOCS - Semi-volatile organic compounds
NS - Not screened
EPA - Environmental Prtoection Agency
RCRA - Resource Conservation and Recovery Act
RCRA 8 Metals - As, Ba ,Cd, Cr, Pb, Hg, Se, Ag
PCBs - Polychlorinated biphenols
TPH - Total petroleum hydrocarbons

Table 2
Monitoring Well Construction Details
Madeira Property, NHDES # 201501001
42 Franklin Street, 27 Bayside Court, and 30 Bayside Court, Laconia, New Hampshire

Monitoring Well ID	Approx. Screened Interval (feet bgs)	Top of Riser Elevation[1] (AMSL)	Gauging Date	Depth to Bottom (feet below TOR)	Depth to Water (feet below TOR)	Water Level Elevation (AMSL)
CA-MW-1	3-10	494.57	5/27/2015	9.10	4.34	490.23
CA-MW-2	3-10	495.93	5/27/2015	9.05	5.69	490.24
CA-MW-3	3-10	493.79	5/27/2015	9.40	3.55	490.24
CA-MW-4	3-10	494.21	5/27/2015	NM	4.00	490.21
CA-MW-5	15-25	506.08	5/27/2015	24.25	15.80	490.28
CA-MW-8	14-24	510.02	5/27/2015	23.31	19.50	490.52
CA-MW-9	6-16	514.10	5/27/2015	21.25	12.24	501.86

bgs - below ground surface
NM - not measured
TOR - Top of Riser
AMSL - above mean sea level
[1)] Elevation survey was referenced to a foundation at the Site integrated from the 1987 USGS Topographic Map of Laconia, New Hampshire to have an estimated elevation of 496.00 AMSL.

Table 3
Asbestos Sample Summary and Results
Madeira Property, NHDES # 201501001
42 Franklin Street, 27 Bayside Court, and 30 Bayside Court, Laconia, New Hampshire

Sample Name	Location	Material	Amount Asbestos	Approximate Quantity (unit)
CA-ACM-1	Retail Store	White ceiling tile	ND	N/A
CA-ACM-2	Retail Store	Joint compound	ND	N/A
CA-ACM-3	**Retail Store**	**White exterior window glazing (left side)**	**4% Chrysotile**	**3 windows**
CA-ACM-4	**Two -Story Building Boiler Room**	**Boiler insulation and mud fittings**	**15% Chrysotile**	**Approximatley 300 feet^2**
CA-ACM-5	**Two -Story Building Boiler Room**	**Pipe wrap**	**20% Amosite 6% Chrysotile**	**Approximatley20 linear feet**
CA-ACM-6	**Two -Story Building Boiler Room**	**Boiler gasket**	**20% Chrysotile**	**Approximatley 0.5 feet^2**
CA-ACM-7	**Lower Building**	**Brown 12x12 inch floor tile**	**4% Chrysotile**	**Approximately 7,800 feet^2**
CA-ACM-8	**Lower Building**	**Off-white 12x12 inch floor tile**	**3% Chrysotile**	
CA-ACM-9	**Lower Building**	**Black mastic**	**6% Chrysotile**	
CA-ACM-10	**Lower Building**	**Exterior window glazing**	**3% Chrysotile**	**Approximately 12 windows**
CA-ACM-11	Lower Building	Interior window glazing	ND	N/A
CA-ACM-12	**Lower Building**	**Off-white 12x12 inch floor tile and mastic**	**5% Chrysotile**	**Approximatley 300 feet^2**
CA-ACM-13	**Lower Building**	**Ceiling tile (rear)**	**2% Chrysotile 3% Amosite**	**Approximatley 2,300 feet^2**

ND - None detect
Bold - Asbestos-containing materials
N/A - Not applicable

Table 4
PCB-Containing Building Material Sample Description and Results
Madeira Property, NHDES # 201501001
42 Franklin Street, 27 Bayside Court, and 30 Bayside Court, Laconia, New Hampshire

Sample Name	Location	Material	Substrate	Regulatory Criteria (mg/kg)	Total PCBs (mg/kg)
CA-PCB-1	Retail Store	Gray floor paint (lower layer)	Concrete	50*	**1.1**
CA-PCB-2	Retail Store	White interior paint	Concrete Masonry Unit (CMU)		**4.9**
CA-PCB-3	Retail Store	White exterior paint	CMU		ND<0.2
CA-PCB-4	Retail Store	Gray floor paint (upper layer)	Concrete		**3.8**
CA-PCB-5	Retail Store	Caulk around rear door	CMU		ND<0.1
CA-PCB-6 (CA-PCB-DUP)	Boiler Room - Two Story Building	Gray floor paint	Concrete		**5.4 (3.3)**
CA-PCB-7	Lower Building	White interior paint	CMU		**1.8**
CA-PCB-8	Lower Building	Beige interior paint	CMU		**3.2**
CA-PCB-9	Lower Building	Black mastic	Concrete		**2.4**
CA-PCB-10	Lower Building	Window caulk	CMU		**1.2**

ND - None detected

*Results were compared to the 40 CFR 761.3 definition of PCB bulk product waste where results greater than 50 mg/kg of PCBs are required to be removed. Results that exceed 1 mg/kg are regulated for disposal when removed from use.

Table 5
Lead-Based Paint Screening Results
Madeira Property, NHDES # 201501001
42 Franklin Street, 27 Bayside Court, and 30 Bayside Court, Laconia, New Hampshire

Building	Room/Location	Substrate	Color	Lead Concentration (mg/cm^2)
Standardization				
1.02 calibration check				0.97
0 calibration check				0
Retail Store	Room 1/A	Drywall	White	0.0
Retail Store	Room 1/B	Drywall	White	0.0
Retail Store	Room 1/C	Drywall	White	0.0
Retail Store	Room 1/D	Drywall	White	0.0
Retail Store	Room 1/Door	Wood	Gray	0.0
Retail Store	Room 1/Window frame	Wood	Gray	0.0
Retail Store	Room 2/A	Drywall	White	0.0
Retail Store	Room 2/B	Drywall	White	0.0
Retail Store	Room 2/C	Drywall	White	0.0
Retail Store	Room 2/D	Drywall	White	0.0
Retail Store	Room 3/A	Drywall	White	0.0
Retail Store	Room 3/B	Drywall	White	0.0
Retail Store	Room 3/C	Drywall	White	0.0
Retail Store	Room 3/D	Drywall	White	0.0
Retail Store	Room 3/Base boards	Wood	Gray	0.0
Retail Store	Room 4/C	Drywall	White	0.0
Retail Store	Room 4/D	Drywall	White	0.0
Retail Store	Room 5/A	Drywall	White	0.0
Retail Store	Room 5/B	Drywall	White	0.0
Retail Store	Room 5/C	Drywall	White	0.0
Retail Store	Room 5/D	Drywall	White	0.0
Retail Store	Room 6A	Drywall	Orange	0.0
Retail Store	Room 6/C	Drywall	Orange	0.0
Retail Store	Room 7/A	Drywall	Orange	0.0
Retail Store	Room 8/A	Concrete Masonry Unit (CMU)	Orange	0.0
Retail Store	Rooom 10/A	Block	Orange	0.0
Retail Store	Room 10/Floor	Block	Orange	0.0
Retail Store	Room 11/A	Block	Orange	0.0
Retail Store	Rooom 11/Floor	Block	Orange	0.0
1.02 calibration check				1.0
0 calibration check				0.0
Retail Store	Exterior Wall/A	CMU	White	0.0
Retail Store	Room 9/A	Drywall	White	0.0
Retail Store	Exterior Wall/B	CMU	White	0.0
Retail Store	Exterior Wall/C	CMU	White	0.0
Retail Store	Exterior Wall/Garage Bay	Metal	White	0.0
Retail Store	Exterior Wall/D	CMU	White	0.0
Two Story Building	Boiler Room/A	CMU	White	0.0
Two Story Building	Boiler Room/B	CMU	White	0.0
Two Story Building	Boiler Room/C	CMU	White	0.0
Two Story Building	Boiler Room/D	CMU	White	0.0
Lower Building	Room 1/A	CMU	Orange	0.0
Lower Building	Bathroom/A	CMU	Orange	0.0
Lower Building	Bathroom/Trim	CMU	Green	0.0
Lower Building	Room 1/C	CMU	Orange	0.0
Lower Building	Room 2/C	Wood	Black	0.0
Lower Building	Room 1/Beam	Steel	Green	0.09
Lower Building	Room 1/A	CMU	Beige	0.0
Lower Building	Room 2/A	CMU	Baby blue	0.0
Lower Building	Exterior wall/A	CMU	Orange	0.0
Lower Building	Exterior wall/C	CMU	Orange	0.0
Lower Building	Exterior wall/D	CMU	Orange	0.0

Table 6
Universal/Hazardous/Other Waste Inventory
Madeira Property, NHDES # 201501001
42 Franklin Street, 27 Bayside Court, and 30 Bayside Court, Laconia, New Hampshire

Location	Waste	Quantity
Boiler room	Fluorescent light fixtures (in-use)	1
	5-gallon oil can	1
Lower building	Fluorescent light fixtures (in use)	75
	Fluorescent light fixtures (waste)	11
	Mercury thermostats	6
	Paint cans (1-gallon)	25
	Paint bucket (5-gallon)	4
	Compressed gas cylinders	2
Retail store	Fluorescent light fixtures	52
	Mercury thermostats	2
	Exit signs	2
	Emergency lights	2

Table 7
Summary of Soil Analytical Results
Madeira Property, NHDES # 201501001
42 Franklin Street, 27 Bayside Court, and 30 Bayside Court, Laconia, New Hampshire

Parameter*	Regulatory Criteria[1] (mg/kg)	Sample ID, Depth (interval/VOC), Sample Date											
		CA-SB-1	CA-SB-2	CA-SB-3			CA-SB-4		CA-SB-5	CA-SB-6	CA-SB-7	CA-SB-8	CA-SB-9
		6-8	4-6	2-4		4-6	0-2	8-10	4-6	6-8	4-6	6-8	12-14/12.5
		5/8/2015	5/8/2015	5/8/2015	CA-DUP	5/8/2015	5/8/2015	5/8/2015	5/7/2015	5/7/2015	5/8/2015	5/7/2015	5/7/2015
Volatile Organic Compounds (VOCs) by EPA Method 8260C (mg/kg)													
naphthalene	5	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	**0.2**	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Semi-Volatile Organic Compounds (SVOCs) or Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270D (mg/kg)													
naphthalene	5	ND<0.06	**0.12**	ND<0.06	ND<0.06	ND<0.06	**1.5**	ND<0.06	ND<0.05	ND<0.05	ND<0.26	ND<0.25	ND<0.05
2-methylnaphthalene	96	ND<0.06	**0.07**	ND<0.06	ND<0.06	ND<0.06	**0.61**	ND<0.06	ND<0.05	ND<0.05	ND<0.26	ND<0.25	ND<0.05
acenaphthylene	490	ND<0.06	**0.14**	ND<0.06	ND<0.06	ND<0.06	**0.77**	ND<0.06	ND<0.05	ND<0.05	ND<0.26	ND<0.25	ND<0.05
acenaphthene	340	ND<0.06	ND<0.06	**0.13**	**0.09**	ND<0.06	ND<0.29	ND<0.06	ND<0.05	ND<0.05	ND<0.26	ND<0.25	ND<0.05
dibenzofuran	NE	ND<0.06	ND<0.06	**0.16**	**0.09**	ND<0.06	ND<0.29	ND<0.06	ND<0.05	ND<0.05	ND<0.26	ND<0.25	ND<0.05
fluorene	77	ND<0.06	ND<0.06	**0.15**	**0.08**	ND<0.06	ND<0.29	ND<0.06	ND<0.05	ND<0.05	ND<0.26	ND<0.25	ND<0.05
phenanthrene	NE	**0.17**	**0.82**	**2.6**	**1.5**	**0.66**	**2.6**	**0.23**	ND<0.05	ND<0.05	**1.4**	**0.30**	ND<0.05
anthracene	1,000	ND<0.06	**0.14**	**0.58**	**0.23**	**0.12**	**0.45**	ND<0.06	ND<0.05	ND<0.05	**0.27**	ND<0.25	ND<0.05
fluoranthene	960	**0.24**	**1.3**	**2.4**	**1.5**	**0.56**	**2.2**	**0.34**	ND<0.05	ND<0.05	**2.0**	**0.43**	ND<0.05
pyrene	720	**0.28**	**1.6**	**2.5**	**1.6**	**0.60**	**2.7**	**0.43**	ND<0.05	ND<0.05	**2.3**	**0.40**	ND<0.05
benzo(a)anthracene	1	**0.14**	**0.76**	**1.3**	**0.8**	**0.26**	**1.2**	**0.19**	ND<0.05	ND<0.05	**1.1**	ND<0.25	ND<0.05
chrysene	120	**0.18**	**0.93**	**1.1**	**0.8**	**0.26**	**1.5**	**0.22**	ND<0.05	ND<0.05	**1.2**	ND<0.25	ND<0.05
benzo(b)fluoranthene	1	**0.19**	**0.93**	**0.83**	**0.52**	**0.19**	**0.96**	**0.19**	ND<0.05	ND<0.05	**1.9**	ND<0.25	ND<0.05
benzo(k)fluoranthene	12	**0.11**	**0.64**	**0.74**	**0.65**	**0.17**	**0.77**	**0.15**	ND<0.05	ND<0.05	**2.0**	ND<0.25	ND<0.05
benzo(a)pyrene	0.7	**0.13**	**0.72**	**0.88**	**0.65**	**0.20**	**0.87**	**0.16**	ND<0.05	ND<0.05	**0.94**	ND<0.25	ND<0.05
indeno(1,2,3-cd)pyrene	1	ND<0.06	**0.28**	**0.43**	**0.29**	**0.12**	**0.46**	**0.10**	ND<0.05	ND<0.05	**0.37**	ND<0.25	ND<0.05
dibenzo(a,h)anthracene	0.7	ND<0.06	**0.13**	**0.21**	**0.14**	**0.06**	ND<0.29	ND<0.06	ND<0.05	ND<0.05	ND<0.26	ND<0.25	ND<0.05
benzo(g,h,i)perylene	NE	**0.07**	**0.25**	**0.43**	**0.29**	**0.13**	**0.55**	**0.12**	ND<0.05	ND<0.05	**0.43**	ND<0.25	ND<0.05
Total Petroleum Hydrocarbons (TPH) by EPA Method 8100 (mg/kg)													
TPH	10,000	NS	NS	NS	NS	NS	NS	NS	ND<210	ND<220	**410**	**440**	ND<210
Polychlorinated Biphenyls (PCBs) by EPA Method 8082A (mg/kg)													
Total PCBs	1	NS	NS	ND<0.2	ND<0.2	ND<0.1	ND<0.2	ND<0.2	ND<0.2	NS	NS	NS	ND<0.1
RCRA 8 Metals by EPA Methods 6010C and 7471B (mg/kg)													
arsenic	11	**2.1**	**1.5**	**4.2**	**4.8**	**5.2**	**30**	**2.2**	**1.7**	NS	NS	NS	**4.3**
barium	1,000	**33**	**100**	**190**	**210**	**94**	**170**	**19**	**15**	NS	NS	NS	**20**
cadmium	33	**0.5**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	**0.7**	ND<0.5	ND<0.4	NS	NS	NS	ND<0.4
chromium (total)	130	**29**	**16**	**18**	**19**	**14**	**16**	**11**	ND<5	NS	NS	NS	**8**
lead	400	**190**	**100**	**870**	**950**	**320**	**230**	**43**	**4.1**	NS	NS	NS	**7.4**
mercury	7	**0.58**	ND<0.22	ND<0.21	ND<0.20	ND<0.20	ND<0.21	ND<0.23	ND<0.18	NS	NS	NS	ND<0.20

NOTES:
*Only analytes with detections are shown, all other sample analyses results were below the laboratory reporting limits.
1 - New Hampshire Department of Environmental Services (NHDES) Code of Administrative Rules Chapter Env-Or 600, Soil Remediation Standards, Table 600-2, adopted June 1, 2015, and February 2013 Appendix E Method 1 Soil Standards
mg/kg - milligrams per kilogram
NE - not established
NS - not sampled
UJ - Results did not exceed the laboratory reporting limits; however, are considered estimated due to laboratory non-conformance.
ND<0.2 - Results were below the laboratory reporting limits, laboratory reporting limit shown
Bold Exceeds laboratory reporting limit
Exceeds applicable regulatory guideline

Table 7
Summary of Soil Analytical Results
Madeira Property, NHDES # 201501001
42 Franklin Street, 27 Bayside Court, and 30 Bayside Court, Laconia, New Hampshire

Parameter	Regulatory Criteria[1] (mg/kg)	Sample ID, Depth (interval/VOC), Sample Date				
		CA-SS-1	CA-SS-2	CA-SS-3	CA-SS-4	CA-SS-5
		0-1.5	0-1.5	0-1.5	0-1.5	0-1.5
		5/7/2015	5/7/2015	5/7/2015	5/7/2015	5/7/2015
Volatile Organic Compounds (VOCs) by EPA Method 8260C (mg/kg)						
naphthalene	NS	NS	NS	NS	NS	NS
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270D (mg/kg)						
naphthalene	5	ND<0.5	ND<0.5	ND<0.5	ND<0.6 UJ	ND<0.7
2-methylnaphthalene	96	ND<0.5	ND<0.5	ND<0.5	ND<0.6 UJ	ND<0.7
acenaphthylene	490	ND<0.5	ND<0.5	ND<0.5	ND<0.6 UJ	ND<0.7
acenaphthene	340	ND<0.5	ND<0.5	ND<0.5	ND<0.6 UJ	ND<0.7
dibenzofuran	NE	ND<0.5	ND<0.5	ND<0.5	ND<0.6 UJ	ND<0.7
fluorene	77	ND<0.5	ND<0.5	ND<0.5	ND<0.6 UJ	ND<0.7
phenanthrene	NE	**0.6**	ND<0.5	**0.6**	**0.7**	**3.1**
anthracene	1,000	ND<0.5	ND<0.5	ND<0.5	ND<0.6 UJ	ND<0.7
fluoranthene	960	**1.5**	ND<0.5	**1.3**	**1.8**	**7.2**
pyrene	720	**1.5**	ND<0.5	**1.4**	**2.2**	**7.7**
benzo(a)anthracene	1	**0.5**	ND<0.5	**0.6**	**1.0**	**3.2**
chrysene	120	**0.9**	ND<0.5	**0.8**	**1.2**	**4.4**
benzo(b)fluoranthene	1	**0.9**	ND<0.5	**0.8**	**1.5**	**3.7**
benzo(k)fluoranthene	12	**0.6**	ND<0.5	**0.5**	**0.8**	**4.2**
benzo(a)pyrene	0.7	**0.6**	ND<0.5	**0.7**	**1.3**	**3.7**
indeno(1,2,3-cd)pyrene	1	ND<0.5	ND<0.5	ND<0.5	**0.8**	**2.1**
dibenzo(a,h)anthracene	0.7	ND<0.5	ND<0.5	ND<0.5	ND<0.6 UJ	**1.0**
benzo(g,h,i)perylene	NE	**0.5**	ND<0.5	**0.5**	**1.0**	**2.2**
Total Petroleum Hydrocarbons (TPH) by EPA Method 8100 (mg/kg)						
TPH	10,000	NS	NS	NS	NS	NS
Polychlorinated Biphenyls (PCBs) by EPA Method 8082A (mg/kg)						
Total PCBs	1	ND<0.1	ND<0.2	ND<0.2	ND<0.2	ND<0.2
RCRA 8 Metals by EPA Methods 7471B and 6010C (mg/kg)						
arsenic	11	**1.8**	**4.8**	**4.9**	**5.6**	**5.8**
barium	1,000	**9**	**23**	**33**	**33**	**69**
cadmium	33	ND<0.4	ND<0.4	ND<0.4	ND<0.4	**0.5**
chromium (total)	130	ND<5	**7**	**11**	**19**	**21**
lead	400	**23**	**14**	**58**	**99**	**140**
mercury	7	ND<0.18	ND<0.19	ND<0.17	ND<0.21	ND<0.24

NOTES:
*Only analytes with detections are shown, all other sample results analyses were below the laboratory reporting limit.
1 - New Hampshire Department of Environmental Services (NHDES) Code of Administrative Rules Chapter Env-Or 600, Soil Remediation Standards, Table 600-2, adopted June 1, 2015, and February 2013 Appendix E Method 1 Soil Standards
mg/kg - milligrams per kilogram
NE - not established
NS - not sampled
UJ - Results did not exceed the laboratory reporting limits; however, are considered estimated due to laboratory non-conformance.
ND<0.2 - Results were below the laboratory reporting limits, laboratory reporting limit shown
Bold Exceeds laboratory reporting limit
Exceeds applicable regulatory guideline

Table 8
Summary of Groundwater Analytical Results
Madeira Property, NHDES # 201501001
42 Franklin Street, 27 Bayside Court, and 30 Bayside Court, Laconia, New Hampshire

Parameter	Regulatory Criteria		Sample ID, Sample Date*							
	AGQS[1]	GW-2[2]	CA-MW-1	CA-MW-2	CA-MW-3		CA-MW-4	CA-MW-5	CA-MW-8	CA-MW-9
			5/27/2015	5/27/2015	5/27/2015	CA-MW-DUP	5/27/2015	5/27/2015	5/27/2015	5/27/2015
Volatile Organic Compounds (VOCs) by EPA Method 8260C (µg/L)										
All compounds	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270D (µg/L)										
fluoranthene	280	NE	ND<0.5	ND<0.5	ND<0.5	ND<0.5	**0.6**	ND<0.5	ND<0.5	ND<0.5
pyrene	210	NE	ND<0.5	ND<0.5	ND<0.5	ND<0.5	**0.8**	ND<0.5	ND<0.5	ND<0.5
benzo(a)pyrene	0.2	NE	ND<0.2	ND<0.2	ND<0.2	ND<0.2	**0.3**	ND<0.2	ND<0.2	ND<0.2
Dissolved RCRA 8 Metals by EPA Method 6010C and EPA Methods 7470A (µg/L)										
Barium	2,000	NE	**410**	**80**	ND<50	ND<50	**90**	**120**	**70**	ND<50

NOTES:

*Only analytes with detections are shown, all other sample results analyses were below the laboratory reporting limits

1 - New Hampshire Department of Environmental Services, Table 600-1, Ambient Groundwater Quality Standards effective June, 1, 2015

2 - NHDES Risk Characterization management Policy Table 2, Method 1 Groundwater Standards GW-2, February 2013 (Also the Groundwater to Indoor Air Screening Levels GW-2 from NHDES Table 1 Vapor Instrusion Screening Levels, February 2013)

µg/L - micrograms per liter

NA - Compounds have various regulatory criteria

ND<0.2 - Results were not detected above the laboratory reporting limit, reporting limit for compound indicated after ND

ND - Results were not detected above the laboratory reporting limit for all compounds with different reporting limits

NE - Not established

Bold Exceeds laboratory reporting limit

Result exceeds regulatory criteria; however, is attributed to elevated turbidity and is not considered representative of dissolved compounds

APPENDIX A

SITE-SPECIFIC QUALITY ASSURANCE PROJECT PLAN

1. TITLE AND APPROVAL PAGE

SITE-SPECIFIC QUALITY ASSURANCE PROJECT PLAN (SSQAPP)
ADDENDUM TO NEW HAMPSHIRE GENERIC QAPP RFA #14123

PROPERTY:
Madeira Property
NHDES #201501001
42 Franklin Street, 27 Bayside Court and 30 Bayside Court, Laconia (Lakeport), New Hampshire
EPA Brownfields Assessment Grant # BF-96176301

PREPARED BY:
Credere Associates, LLC
776 Main Street, Westbrook, Maine 04092
(207) 828-1272

April 30, 2015

Below is a listing of the names, titles, signatures, and signature dates of officials approving this Site Specific Quality Assurance Project Plan (SSQAPP) Addendum:

Alan Peterson — Date: 5/6/15
EPA Brownfields Project Officer

Nora Conlon — Date: 5/6/15
EPA Quality Assurance Officer

Jeff Hayes — Date: 4/30/15
Lakes Region Planning Commission, Brownfields Assessment Grantee

Rebecca Williams — Date: 5/4/2015
NHDES Project Manager

Judd Newcomb, PG, CG — Date: 4/30/15
Credere Associates, LLC QA/QC Manager

Rip Patten, PE, LSP, LEED-AP — Date: 4/30/15
Credere Associates, LLC Program Manager

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2. INTRODUCTION

Credere Associates, LLC (Credere) was retained by Lakes Region Planning Commission (LRPC) to prepare this Site-Specific Quality Assurance Project Plan (SSQAPP). LRPC is using funding from a U.S. Environmental Protection Agency (EPA) Brownfields Assessment Grant (Grant BF-96176301) to conduct assessment activities at the Madeira Property located at 42 Franklin Street, 27 Bayside Court, and 30 Bayside Court in the City of Laconia, New Hampshire (the Site).

This SSQAPP presents the following information:

- Problem definition including a Site description and summary of background information for the Site
- Project description and timeline
- Preliminary conceptual site model (CSM)
- Assessment objectives and proposed sampling design and rationale
- Site-specific field sampling and analytical methodology
- Regulatory standards applicable to the Site for each proposed sampling media

This SSQAPP was prepared to be used in concert with Credere's Generic Quality Assurance Project Plan (QAPP) EPA Quality Assurance Tracking: Request for Assistance (RFA) #14123 revision dated September 4, 2014, which was prepared for all of Credere's EPA Brownfields work in New Hampshire. The quality assurance and quality control (QA/QC) procedures outlined in Credere's Generic QAPP will be followed for this investigation program including sample collection, handling, and analysis of samples; chain-of-custody; and data management, documentation, validation and usability assessment. Sampling as outlined in this SSQAPP will not occur until receipt of approval from EPA and the New Hampshire Department of Environmental Services (NHDES).

Figure 1 shows the general location of the Site in Laconia, New Hampshire; **Figure 2** presents pertinent Site features and proposed sampling locations; and **Figure 3** is a Project Organization Flow Chart for the project team.

3. PROBLEM DEFINITION

3.1 SITE DESCRIPTION

The 5.31-acre Site consists of three parcels and is located west of the Lake Winnipesaukee Lakeport Dam. The Site is surrounded by residential buildings and is bordered by Opechee Bay to the south. The Site contains of four buildings referred to as the Madeira office and warehouse building, the two story building, the retail shop and the lower building. The Site is identified on the City of Laconia as Map 366, Block 14, Lot 4; and Map 366, Block 82, Lots 5 and 6. Below is a description of the four Site buildings (see **Figure 2**) including details of conditions observed during Credere's Phase I ESA Site reconnaissance.

Madeira Office and Warehouse Building

The Madeira Office and Warehouse Building is a 17,547 square foot light-industrial style building constructed in 1923. This building is the easternmost building and is used by Madeira USA as a distribution center. The second and third floors are office space while the first floor is a large warehouse. The building appears to be well maintained and no evidence of hazardous material use or storage was observed.

Two Story Building

The Two Story Building is an 18,834 square foot light-industrial style building built in 1923 along Franklin Street. It is currently occupied by EAG, an online company specializing in engraving, awards and gifts. The second floor consists of offices and light manufacturing. The first floor consists of distribution and warehouse space. A former boiler room is located on the first floor, which contains two out-of-service fuel oil boilers. The boiler breaching was observed to be damaged and discarded throughout the boiler room and a sump pump that reportedly discharges to an onsite drywell was also observed.

Lower Building

The Lower Building is a 10,064 square foot warehouse style building constructed in 1964 in the westernmost portion of the Site. The interior consists of a large warehouse area and a smaller section comprised of several empty rooms, a bathroom, and a smaller warehouse area. The building is currently vacant and has sustained water damage to the roof and floor. A suspected fuel line, a fill pipe, and overfill alarm were observed on the north side of the building in the area of mounded earth.

Retail Store

The Retail Store was constructed in 1923, and is the smallest building associated with the Site consisting of 5,000-square feet. It is currently vacant and is located on the northeast corner of the Site. The building consists of a show room, offices and a small warehouse area.

3.2 SITE AND SURROUNDING AREA HISTORY

The Site

The Site was first developed by Nathan Batchelder who constructed a woolen mill in the mid-1800s that was subsequently destroyed by fire in 1885. In its place, the Union Lace Mill, the H. H. Wood & Co. Oriental Hosiery Mill, and the Riverside Grist Mill were constructed by 1887. In 1892, the WM Clow & Sons Hosiery Mill took the place of the Union Lace Mill on the western portion of the Site. By 1897, the Boulia Gorrell & Company Sash & Blind Factory was constructed on the eastern portion of the Site. The Laconia Electric Light Company, which generated electricity, was also constructed on the eastern most portion of the Site east of the grist mill. By 1902, the WM Clow & Sons Hosiery was closed and the building was used for storage by Boulia Gorrell & Company. In addition, the main mill buildings, several dye houses and coal sheds were present throughout the Site. These mills and the hydro-electric power plant utilized a canal running from the present day Lakeport Dam, parallel to the present lake shore.

These mills operated until they were destroyed in The Great Fire of 1903, which started in the H. H. Wood & Co. Oriental Hosiery Mill. Since the Laconia Electric Light Company supplied water pressure to the town at the time, firemen were unable to extinguish the fire when the hydro-electric power plant burned. One year after the fire, the H.H. Wood & Company Oriental Hosiery Mill, the Boulia Gorrell & Company mill and the power generation plant were reconstructed; however, the Laconia Electric Light Company structure is used as a transformer house only.

By 1923, the three current eastern Site buildings were depicted north of the largest mill building and the Site was primarily occupied by the Boulia Gorrell Lumber Company. The mill along the water was still occupied by the H.H. Wood Hosiery Mill. The western most current Site building was constructed in 1960. The large mill building along the water burned down between 1948 and 1976. By 1976, the Site buildings were utilized by the Laconia Industrial Development Corporation that included textile production in the two western buildings, a meat distributer in the northern building, and copper heating coil manufacturing in the eastern building.

Surrounding Area

The surrounding area has been residential since at least 1887. All nearby buildings were reportedly burned in The Great Fire of 1903 and redevelopment was slow to return. From at least 1911 through 1948, a blacksmith and wheelwright were located adjacent to the northeast corner of the Site. By 1976, most of the residential homes had been constructed similar to present conditions.

3.3 PRIOR INVESTIGATIONS

The following prior environmental reports were identified for the Site.

Pre-Sale Environmental Site Assessment (ESA), Dunn Geoscience Corporation (DGC), December 3, 1986

In December 1986, DGC conducted a Pre-Sale ESA for Bay Bank-Middlesex to assess potential environmental risks at the Site. DGC interviewed Benjamin Greenfield, the owner of the Site during its occupation by the Barbary Knitting Mills, Sweaterville Factory from 1966 to 1982. Mr. Greenfield reported dyes and hazardous materials were not used onsite by the Sweaterville Factory, and wash effluent was discharged to the sanitary sewer system. He also indicated the Site was later owned and occupied by the Genesis Knitting Mills from 1982 to 1985 until they went bankrupt.

DGC conducted an investigation of a 5,000-gallon No. 4 fuel oil underground storage tank (UST) located off the northeast corner of the two-story building to assess a potential release of fuel oil. The UST was reported to have been installed in approximately 1971 and was not registered with NHDES. On December 2, 1986, three (3) test pits were excavated immediately downgradient from the suspected UST location. Soil samples were screened for petroleum products using a Photovac T.I.P. Meter. No evidence of petroleum impacts was identified during the investigation. DGC recommended the registration of the 5,000-gallon UST with the New Hampshire Water Supply and Pollution Control Commission (the regulatory body at the time).

Phase I Environmental Site Assessment (ESA), December 3, 2014, Credere

Credere prepared a Phase I ESA for the Site dated December 3, 2014, which also included a ground-penetrating radar (GPR) survey to assess four potential UST locations at the Site. Based on reviews of historical sources, environmental databases, interviews, information provided by the City of Laconia, a Site reconnaissance, GPR survey results, and judgment by the Environmental Professional, the following recognized environmental conditions (RECs) were identified in connection with the Site:

- REC #1 – Potential impacts from historical UST at the retail store
- REC #2 – Threat of release from an unregistered UST at the Madeira office building
- REC #3 – Threat of release from an unregistered UST northeast of the two-story building
- REC #4 – Release of ACM in waste form in the boiler room of the two-story building
- REC #5 – Conditions indicative of a release from former boiler room sump pump
- REC #6 – Contaminants associated with The Great Fire of 1903 and Sweaterville fire between 1948 and 1976
- REC #7 – Possible historical releases to the former canal and filling of the canal with an unknown source of fill materials

- REC #8 – Surface soil and sediment impacts associated with historical use of the Site and surrounding area

Additionally, the following environmental finding, which did not meet the ASTM E 1527-13 definition of a REC, historical REC (HREC), controlled REC (CREC), or *de minimis* condition (DMC), but warranted the opinion of an Environmental Professional and may represent some degree of environmental business risk, was identified:

- Environmental Finding #1 – Observed possible hazardous building materials throughout the Site

Based on the RECs and environmental finding identified during this Phase I ESA, Credere recommended the following:

- A Phase II investigation to confirm or dismiss the RECs and environmental findings identified in this Phase I ESA.
- A hazardous building materials survey (HBMS) to assess the presence of hazardous building materials throughout the Site.

4. PROJECT DESCRIPTION & TIMELINE

4.1 REDEVELOPMENT SCENARIO

No final redevelopment plans have been prepared for the Site; however, potential proposed future uses may include commercial, residential, and/or public park uses.

4.2 PROPOSED PROJECT TIMELINE

The following schedule is proposed for the assessment work. This is a dynamic schedule and tasks may be performed later based on document regulatory review time and contractor availability.

TENTATIVE DATE	ACTION
February 2015	Submit Draft SSQAPP
February - March 2015	EPA and NHDES SSQAPP Review Period
March 2015	Finalize SSQAPP and Begin Phase II ESA
May 2015	Submit Draft Phase II ESA
May-June 2015	NHDES Review Period
June 2015	Finalize Phase II ESA

5. CONCEPTUAL SITE MODEL

A CSM was developed using the findings from prior environmental investigations and the Phase I ESA and will be updated in subsequent reports as new information becomes available. This CSM includes a description of the physical setting of the Site, contaminants of concern (COCs), extent of contamination, migration potential, exposure pathways, and potential human and environmental receptors.

5.1 PHYSICAL SETTING

Topography

Based on Credere's observations and the United States Geological Survey (USGS) Topographic Map of the Laconia Quadrangle, New Hampshire, topography at the Site slopes to the south. The southern property boundary is the shore line of Opechee Bay and elevation at the Site is approximately 500 feet above mean sea level. An excerpt from the USGS map has been included as **Figure 1**.

Geology

Surficial Geology

According to the physical Setting Source Summary in the Environmental Database Report (EDR), which is derived from the US Department of Agriculture's Soil Conservation Service National Cooperative Survey, Site soils are mapped as Monadnock soils, which typically consist of well drained very stony fine sandy loam with moderate infiltration rates.

Bedrock Geology

According to the Bedrock Geologic Map of New Hampshire, bedrock beneath the Site consists of metamorphic Lower Silurian aluminous schist, quartzite, calc-silicate granofels and bi-modal metavolcanic rocks of the Upper Rangley Formation. No bedrock outcrops were observed during Credere's Site reconnaissance.

Hydrology

The nearest surface water body to the Site is Opechee Bay, which is located along the southern edge of the Site. Stormwater likely infiltrates permeable areas of the Site or flows overland to Opechee Bay.

Based on observed grades and mapped topography at the Site and surround area, groundwater at the Site is presumed to flow to the south to southwest toward Opechee Bay.

5.2 CURRENT CONTAMINANTS OF CONCERN

Based on the historical use of the Site, current COCs include the following:

- Volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and total petroleum hydrocarbons (TPH) associated with the suspect USTs, former boiler room sump pump, and historical use of the Site (e.g. use of dyes, discharges and filling of the canal).
- Metals from dyes used and stored at the Site and from historical fires
- Polychlorinated biphenyls (PCBs) from lubricants in machinery historically used at the Site and electrical generation
- Polycyclic aromatic hydrocarbons (PAHs) from the use of coal and historical fires
- Hazardous building materials including asbestos-containing materials (ACM), PCB-containing building materials and lead-based paint (LBP)

5.3 MIGRATION ANALYSIS & EXTENT OF CONTAMINATION

The extent of contamination onsite is currently unknown as it has not been fully assessed or delineated to date. However, the inferred extent of COCs is as follows:

- VOCs, SVOCs and TPH are expected to be encountered in areas of the suspect former or current USTs (REC #1, REC #2, and REC #3) and at the possible discharge/drywell location of the boiler room sump (REC #5). Additionally, because of the unknown use of the suspect UST at the Madeira office building (REC #2), the Resource Conservation and Recovery Act (RCRA) 8 list of metals are also COCs for this area. Contaminants in these areas would likely have been released directly to the subsurface from the USTs or the sump discharge and would migrate downward to the groundwater table. Once in groundwater, contaminants have the potential to flow/disperse in the inferred direction of groundwater flow toward Opechee Bay. Due to the USTs' proximity to the Site buildings (i.e. within 30 feet), vapor intrusion is also a possible concern. Vapor phase contaminants could migrate into Site buildings along preferential pathways (i.e. underground utilities, buried foundations, etc.).
- VOCs and SVOCs associated with historical solvents and dyes are expected to be encountered in the area of the former dye house and potentially in other areas in surface soil as a result of historical Site use (REC #8) and historical fires (REC #6). Compounds may remain in surface soil and be mobilized as airborne particles during soil disturbance or by wind, or may leach downward to groundwater where they may migrate with groundwater flow towards Opechee Bay.
- PAHs, metals, PCBs and asbestos are also expected to be encountered in surface soil throughout the Site as a result of historical Site use (REC #8) and historical fires (REC #6). PAHs, PCBs, and asbestos are generally stable; however, have the potential to migrate as airborne dust. Under appropriate geochemical conditions, metals could be

mobilized from soil and leach downward to the groundwater table. Once in the subsurface, metals have the potential to impact and migrate with groundwater toward Opechee Bay.

- VOCs, SVOCs, metals and PCBs are also expected to be encountered in subsurface soil in the former canal as a result of industrial dumping and filling the canal with an unknown source of fill (REC #7). Contaminants in subsurface soil could be mobilized as a result of soil disturbance. Impacted soil may enter Opechee Bay through runoff, or dissolved COCs may migrate with groundwater and be discharged to the bay.
- It is currently unknown if Site related contaminants have impacted sediments in Opechee Bay. However, if contaminants are present they would most likely be PAHs, metals and/or PCBs area of the former hydro-electric power plant and grist mill. COCs may have been discharged during the historical fires (REC #6), been discharged directly to the lake during historical industrial operations (REC #8), or been transported to the Site from upstream sources due to the slowing of water flowing off the Lakeside Dam. Contaminants in lake sediment could migrate through sediment disturbing activities. Sediment sampling is not proposed to be at this time and the Conceptual Site Model will be updated following initial Phase II ESA results to determine if assessment is necessary.

ACM, PCBs, and LBP are expected to be encountered in and on the Site buildings (REC #4, Environmental Finding #1). These COCs would likely be confined to the Site buildings or immediately surrounding the Site buildings in soil. These contaminants could be mobilized through disturbance of hazardous building materials or soil along the building perimeters, and could migrate as airborne particles.

5.4 EXPOSURE PATHWAYS AND POTENTIAL RECEPTORS

Exposure pathways describe how a human or environmental receptor comes into contact with contaminants that may be present at the Site. Exposure pathways presented in the CSM include the following:

Active Ingestion: The active ingestion pathway represents exposure which may occur through the active ingestion of contaminant concentrations via a drinking water supply well, through agricultural products, or through direct consumption of soil (typically by children).

Inhalation: This pathway is primarily associated with groundwater contamination within 30 (petroleum volatiles) to 100 (non-petroleum volatiles) feet of an occupied structure. This pathway is applicable when receptors may inhale impacted media in the form of contaminated vapor. This pathway is also applicable when contaminated soil and/or groundwater are exposed via an excavation.

Dermal Absorption: Exposure via dermal absorption occurs when receptors are exposed to chemical concentrations present in soil, groundwater, surface water, or hazardous building materials through direct contact with the skin.

Incidental Uptake: This pathway is applicable when receptors may incidentally inhale or ingest impacted media in the form of contaminated dust, chips, or airborne asbestos fibers.

Potential Receptors are categorized by duration of exposure and intensity of use at the Site. The receptor categories described in the CSM include the following:

Resident: The residential receptor is defined by high durational exposure and high intensity usage which may occur through gardening, digging, and recreational sports. This group includes the occupants of a residential property or a residential neighborhood, or a daycare.

Commercial Workers: Commercial receptors are those which are present at the Site for long durations but with low intensity exposure such as indoor office workers.

Recreational or Park User: Park users are characterized by low duration (i.e. less than two hours per day) and low intensity usage such as that which would occur during activities such as walking, shopping, and bird watching.

Excavation or Construction Worker: Excavation or construction workers are present at the Site for short durations though intensity of use is high, such as during non-routine activities including construction or utility work. Examples include utility and construction contractors and landscapers.

Terrestrial and Aquatic Biota: These receptors include flora and fauna which may be exposed to contaminants in their respective ecosystems.

5.5 CONCEPTUAL SITE MODEL SUMMARY

Under current conditions, exposure to COCs at the Site is generally limited to hazardous building materials and possible indoor air impacts from vapor intrusion. Planned continued use of the Site as office and warehouse space, possible future redevelopment, and possible UST removal may increase exposure to COCs by future receptors at the Site.

Under the current use of the Site, potential receptors include employees of the Site's multiple businesses, landscape personnel, and terrestrial and aquatic biota. Exposure pathways may include dermal absorption through direct contact with impacted media, incidental uptake of contaminated dust/sediment or asbestos fibers; and inhalation of volatile COCs in indoor air by commercial workers.

The future use of the Site has not been determined; however, future redevelopment is likely. Additional future receptors include future excavation/construction workers, park users, or

residents. Under future use conditions, additional exposure pathways may include inhalation by residents, active ingestion of contaminated soil by children or through uptake in vegetable gardens; and dermal contact with soil or groundwater during building construction and/or park use.

6. SAMPLING DESIGN

6.1 OBJECTIVE

The main objective of this assessment is to assess the RECs and environmental findings and fulfill the recommendations identified during the Phase I ESA. To achieve this objective the following Site-specific objectives have been established:

- Assess the areas of former or suspect USTs (RECs #1, #2, and #3)
- Assess the possible discharge location of the former boiler room sump of the two-story building (REC #5)
- Assess the former canal for possible releases and filling (REC #7)
- Assess surface soil throughout the Site for impacts from historical fires (REC #6) and from historical use of the Site and surrounding area (REC #8)
- Evaluate the presence and quantities of hazardous building materials throughout each Site building (REC #4 and Environmental Finding #1)

The following tasks are proposed to address these objectives:

- Advance soil borings and collect soil samples from each boring location
- Install groundwater monitoring wells and collect groundwater samples
- Perform an asbestos survey of the Site buildings and collect samples of suspect ACM
- Perform PCB-containing building material survey of the Site buildings and collect samples of suspect PCB-containing materials
- Perform a LBP screening of the Site buildings, and if necessary, screen perimeter soil and collect surface soil samples from the building perimeters
- Perform an inventory of universal/hazardous and/or other wastes present in the Site buildings

Specific sampling methodologies are described in **Section 7**. **Table 1** includes the number and type of samples that are proposed to be collected with accompanying rationale, selected analytical methods, and sample volume and preservation details. **Table 2** is a Standard Operating Procedure (SOP) reference table detailing the version of each SOP that will be used during the field sampling program. Proposed sample locations are depicted on **Figure 2**.

6.2 SOIL BORING ADVANCEMENT & SOIL SAMPLING

Nine (9) soil borings (CA-SB-1 through CA-SB-9) will be advanced at the Site. The justification for each boring location and sample target depths is as follows:

- One (1) soil sample each will be collected from soil borings CA-SB-1 and CA-SB-2 to assess possible contamination from former dye houses (REC #8) and impacts from historical fires (REC #6). These samples will be collected from the depth of greatest observed contamination. In the absence of contamination samples will be collected from the groundwater interface.
- Two (2) subsurface soil samples will be collected each from soil borings CA-SB-3 and CA-SB-4 to assess impacts associated with the former canal and historical fires. One soil sample from each boring will be collected from the depth of greatest observed contamination or depth of an observed fill interval. A second sample from each boring will be collected from the depth of the first encountered native material beneath the industrial waste fill to assess potential leaching of contaminants to native material beneath the fill and delineate the extent of contamination associated with the former canal fill (REC #7). However, there is the potential the canal may have been located above the current ground surface. Therefore, if no related fill material is encountered, only one sample will be collected for laboratory analysis.
- One (1) subsurface soil sample will be collected from soil boring CA-SB-5 to assess the possible location of the discharge/drywell of the former boiler room sump (REC #5). The location was selected based on the location of a subsurface anomaly identified during the previous GPR survey. This sample will be collected from the depth of greatest observed contamination. In the absence of contamination the sample will be collected from the groundwater interface.
- One (1) subsurface surface soil sample will be collected each from three soil borings (CA-SB-6 to CA-SB-8) to assess potential releases from current or former USTs at the Site. Boring CA-SB-6 will be advanced downgradient of the current or former UST located off the northeast corner of the two-story building (REC #3); boring CA-SB-7 will be advanced downgradient of the former UST located off the southwest corner of the retail store (REC #1); and boring CA-SB-8 will be advanced downgradient of the former UST located off the southeast corner of the Madeira Office and Warehouse building (REC #2). These samples will be collected from the depth of greatest observed contamination. In the absence of contamination samples will be collected from the groundwater interface.
- One (1) subsurface surface soil sample will be collected from soil boring CA-SB-9 to provide a subsurface upgradient/background soil sample in a location perceived to be unconnected to any of the RECs identified for the Site. This sample will be collected from the depth of greatest observed contamination. In the absence of contamination samples will be collected from the groundwater interface.

In all locations, the depth of greatest observed contamination shall be the depth of greatest PID response, concentration of fill material, staining, odors, or other anthropogenic evidence. A summary of soil samples and target depths proposed for the Site is provided in **Table 1**.

Previous assessment work at the Site identified two potential UST locations and GPR survey results were inconclusive with regards to confirming or dismissing the presence of USTs.

However, based on the obstructed locations of these suspect USTs, assessment will be conducted using soil borings located just down gradient of the suspect USTs as described above. No USTs are expected to be encountered during subsurface work at the Site. If a UST is encountered, work will be stopped, and the project team (see **Figure 3**) will be notified to determine the appropriate next steps.

6.3 SURFACE SOIL SAMPLING

A summary of surface soil samples proposed for the Site is provided in **Table 1**.

Surface Soil

Five (5) surface soil samples (CA-SS-1 through CA-SS-5) will be collected from 0 to 2 feet below ground surface (bgs) to assess surface soil impacts from historical use of the Site (REC #8) and historical fires (REC #6) and to document surface soil conditions in support of Site reuse. Surface soil samples will be biased towards evidence of contamination (e.g. staining, fill materials, etc.).

Additionally, if LBP is identified on the exterior of any of the Site buildings during field screening (see **Section 6.7**), soil along the exterior perimeter of the buildings below areas of exterior LBP will be screened for lead using an X-ray fluorescence (XRF) meter to assess if chipping or flaking of LBP (presently or in the past) from the Site building has impacted Site surface soil with lead (REC #8 and Environmental Finding #1). Soil surrounding any of the four Site buildings will be presumed to be impacted if XRF screening results exceed 240 parts per million (ppm), which accounts for a 40% error range for the XRF relative to the NHDES Soil Remediation Standard (SRS) for lead of 400 milligrams per kilogram (mg/kg).

If surface soil surrounding any of the four Site buildings is found to be impacted by LBP during field screening, surface soil samples will be collected for laboratory analysis. Sample locations will be selected based on the location of the highest field screening lead concentration on each respective side of a building (up to 16 sample locations, designated CA-LIS-1, CA-LIS-2, etc.). No analytical soil samples will be collected if LBP is not found on the exterior of the Site building or if soil XRF field screening results do not exceed 240 ppm.

Two samples will be collected from each selected location (up to 32 total samples) at 0 to 0.5-feet and 0.5 to 1-foot bgs. The 0.5 to 1-foot samples will be placed on hold pending the results of the 0 to 0.5-feet samples. If results of a 0 to 0.5-feet sample exceed the applicable NHDES SRS, the associated 0.5 to 1-foot sample will be analyzed to delineate the vertical extent of lead impacted soil.

6.4 MONITORING WELL INSTALLATION & GROUNDWATER SAMPLING

Seven (7) of the nine (9) soil borings (CA-SB-1 through CA-SB-5, CA-SB-8, and CA-SB-9) will be completed as groundwater monitoring wells (CA-MW-1 through CA- MW-5, CA-MW-8, and

CA-MW-9, respectively). Proposed monitoring well locations are depicted on **Figure 2**. Groundwater samples will be collected to assess the following:

- CA-MW-1 and CA-MW-2 will be collected to assess possible impacts from the former dye houses (REC #8) and impacts from historical fires (REC #6).
- CA-MW-3 and CA-MW-4 will be collected to assess releases and industrial fill material in the former canal (REC #7) and to assess impacts from historical fires (REC #6).
- CA-MW-5 will be collected to assess the discharge/drywell location for the former boiler room sump pump. CA-MW-5 will be installed in the location of a subsurface anomaly identified during the GPR survey (REC #5)
- CA-MW-8 will be collected to assess potential releases from the suspect UST located off the southeast corner of the Madeira Office and Warehouse building (REC #2)
- CA-MW-9 will be collected to assess groundwater in an upgradient location perceived to be disconnected from any of the RECs identified for the Site.

If evidence of potential groundwater impacts is noted in any other soil boring, the project team will be contacted to determine if installing an additional monitoring well is appropriate at the Site.

6.5 ASBESTOS BUILDING MATERIAL SAMPLING

Credere will perform a survey of the Site buildings to identify suspect ACM, and each suspect ACM bulk building material will be sampled. Sample results will be used to properly manage ACM during current use and potential future renovation to the Site buildings. An estimated 70 suspect ACM materials will be sampled in triplicate (i.e. up to 210 total ACM samples). This sampling will be performed in accordance with NHDES Chapter Env-A 1800: Asbestos Management and Control. The number of samples actually collected will be dependent on the number and volume of suspect ACMs that are encountered, but will not exceed 210 total samples without project team approval.

6.6 PCB-CONTAINING BUILDING MATERIAL SAMPLING

To assess the potential presence of PCB-containing building materials, the buildings will be inspected and suspect materials will be inventoried and considered for sampling. Materials that typically contain PCBs include caulk/sealants, wall and floor paint, and mastics/adhesives that were manufactured between approximately 1930 and 1980 and are most common in, but not limited to, areas that endure high wear, weather, heat, and/or moisture such as exteriors, hallways or building entrances, boiler rooms, equipment rooms, locker rooms, bathrooms, or basements. Typical materials and locations where PCBs are encountered include, but are not limited to:

- exterior caulks and sealants around doors and windows or within exterior expansion joints or joints between two differing building materials
- wall paints and floor paints

- mastics beneath floor tiles

Considering the size of the Site buildings and variety of building materials that are expected to be inventoried, 20 suspect PCB-containing building materials (CA-PCB-1 through CA-PCB-20) that are most likely to contain PCBs will be collected for analysis. One field duplicate from each distinctive type of material sampled (e.g. caulks/sealants/adhesives and paints) to a maximum of two duplicate samples will be collected for analysis. Samples will be collected to assess if any hazards are present associated with PCBs in building materials and if the building materials are regulated as PCB bulk product waste as defined by 40 CFR 761.3. If based on the initial results, additional characterization of PCB-containing building materials is needed, approval for additional samples will be proposed and approved under a separate SSQAPP amendment. Data will be used to properly manage building materials that may contain PCBs during renovations to the Site buildings.

6.7 LBP SCREENING

Painted surfaces throughout the Site building will be screened for lead in LBP to assess the presence and quantity of LBP in the Site building. The number of screening points will be dependent on the number of different types/colors of painted surfaces encountered in/on the Site building.

6.8 UNIVERSAL/HAZARDOUS/OTHER WASTE INVENTORY

Materials that once removed will meet the definition of universal/hazardous or other regulated wastes that requires special disposal include, but are not limited to, fluorescent lighting, smoke detectors, thermostats (that contain mercury), cathode ray tubes, Freon-containing equipment, hydraulic equipment, containers of petroleum or chemicals, petroleum or chemical storage tanks, and lead acid batteries. These types of materials at the Site will be inventoried. Inventory results will be used to properly manage universal and/or hazardous wastes during renovation or demolition of the Site building.

7. SAMPLING & ANALYTICAL METHODS REQUIREMENTS

The proposed sampling activities will be conducted according to **Table 1**. Field activities will be conducted in accordance with Credere's Generic QAPP RFA #14123 and the SOPs referenced on **Table 2**.

7.1 SOIL BORING ADVANCEMENT & SOIL SAMPLING

Borings will be advanced using a hollow stem auger drilling rig. Soil samples will be collected during drilling in continuous 2-foot intervals using a decontaminated split-spoon sampler. Macrocores will be individually logged, evidence of contamination will be noted, and soil will be field screened for total volatile organic compounds (VOCs) using a Thermo 580B OVM PID (or similar) calibrated with a 100 part per million by volume (ppm_v) isobutylene gas with a response factor of 1.0 ppm_v. Soil will be screened in accordance with the NHDES HWRB-12 jar headspace technique SOP.

Sample target depths are summarized in **Section 6.2** and on **Table 1**, which is to be used as a field guide.

In all soil samples, representative soil from a 2-foot interval will be sampled from the macrocore and placed in a decontaminated stainless steel bowl. Visible asphalt and base materials, landscaping materials, and other organic detritus will be removed prior to sampling. VOC samples collected from boring locations will be collected directly from the split spoon using a dedicated soil syringe immediately after opening to prevent loss of volatiles and degradation. Soil for other analyses will be homogenized and placed in laboratory provided glassware. Proposed sample analysis for each respective sample as well as the required volume and preservation is provided on **Table 1**. Soil samples will be stored on ice and submitted to Absolute Resource Associates (ARA) of Portsmouth, New Hampshire, for analysis.

Excess soil from each boring or surface sample location will be returned to its place of origin within the borehole or to the surface surrounding the borehole.

7.2 SURFACE SOIL SAMPLING

Soil samples will be collected using decontaminated hand tools (i.e. hand auger or trowel), placed in a decontaminated stainless steel bowl and homogenized, and then placed in laboratory provided glassware. Visible asphalt and base materials, landscaping materials, large gravel, and other organic detritus will be removed from the sample. Sample locations will be biased towards evidence of contamination (e.g. fill materials, etc.). Soil samples CA-SS-1 through CA-SS-5 will be analyzed at ARA in accordance with **Table 1**, except for asbestos which will be analyzed by EMSL Analytical, using California Air Resource Board (CARB) 435 preparation method in conjunction with method EPA 600/R 93/116 PLM. Since the CARB 435 preparation method was not previously included in Credere's Generic QAPP, it has been included in **Appendix B**.

If surface soil around the Site buildings is found to be impacted by LBP chips (See **Section 6.3**), a maximum of 32 soil samples will be collected from up to 16 locations (CA-LIS-1 through CA-LIS-16). Samples will be collected using a decontaminated hand auger and/or trowel. Soil from 0 to 0.5-feet bgs will be collected by hand auger, placed in a decontaminated stainless steel bowl, and homogenized. Soil will then be transferred to laboratory provided glassware and submitted to ARA to be analyzed for lead by EPA Method 6010C. Soil from 0.5-1-feet bgs will be collected by the same method and placed on hold pending the results of the 0 to 0.5-foot sample. If results of the 0 to 0.5-foot sample exceed the NHDES lead SRS of 400 mg/kg, the associated 0.5 to 1-foot sample will then be analyzed.

7.3 MONITORING WELL INSTALLATION & GROUNDWATER SAMPLING

Monitoring wells will be constructed using at least 10 feet of two inch diameter 0.010-inch slotted PVC screen with at least 5 feet of screen below the depth of the water table and enough solid PVC riser to reach the ground surface. The well annulus will be filled with No. 2 washed silica sand with a bentonite seal and the wells will be completed with flush mounted road boxes or stand pipes depending on the location.

Following installation, each monitoring well's top of PVC elevation will be surveyed to an onsite benchmark, if available, or an arbitrary datum if necessary to allow for the determination of relative groundwater elevations and the calculation of groundwater flow at the Site.

Each well will be developed by overpumping and agitation methods. The wells will be purged until a total of at least three well volumes have been removed and turbidity has been reduced to less than 20 NTUs.

Following development, Credere will allow at least two weeks for the monitoring wells to equilibrate with the surrounding aquifer prior to sampling. Depth to groundwater and non-aqueous phase liquid (NAPL) thickness, if present, will then be measured. Groundwater elevations will be calculated relative to the top of the well casing and elevations will be mapped to assess the groundwater flow direction.

During sampling, groundwater will be periodically monitored for temperature, pH, oxidation-reduction potential, specific conductivity, dissolved oxygen, and turbidity using a multi-parameter meter and an in-line flow-through cell until parameters have stabilized over a period of three readings, spaced at least 5 minutes apart or at a spacing to allow for a complete exchange of flow through the flow-through cell based on the flow-through cell volume and flow rate. Upon stabilization of field parameters or purging of at least three to five well volumes, groundwater samples will be collected immediately after the pump and directly into the appropriate glassware in order of decreasing volatility. Dissolved metals samples will be filtered in the field using in-line 0.45 micron disposal filters. Proposed analysis for each respective sample as well as the required volume and preservation is provided on **Table 1**. Groundwater samples will be stored on ice and submitted to ARA for analysis.

7.4 ASBESTOS BUILDING MATERIAL SAMPLING

All sampling of suspect ACM at the Site will be conducted by a New Hampshire Certified Asbestos Inspector in accordance with NHDES Chapter Env-A 1800: Asbestos Management and Control and the sampling methodology described in 40 CFR 763.86. Generally, three discrete bulk samples will be collected from each type of homogenous suspect ACM; however, more are needed for large areas of surfacing materials and only one sample of small amounts (less than 6 square or linear feet) of material is required. Minor destructive sampling may be required. Samples will be analyzed by EMSL Analytical, Inc. (EMSL) of South Portland, Maine, using Polarized Light Microscopy (PLM) according to EPA Method 600/R-93/116.

7.5 PCB-CONTAINING BUILDING MATERIAL SAMPLING

The buildings will be surveyed to locate the materials that in Credere's experience are more likely to contain concentrations of PCBs exceeding the PCB bulk waste criteria. Twenty (20) samples (CA-PCB-1 through CA-PCB-20) will be collected using dedicated disposable tools and placed in laboratory provided glassware. Samples will be submitted to ARA for analysis of PCBs by EPA Method 8082 using soxhlet extraction method 3540C.

Sampling will be conducted to ensure that each sample is collected from the matrix in question and adjacent products (i.e. sheetrock, wood, brick) are excluded from the aliquot. This method will be used to prevent dilution of potentially regulated PCB concentrations are diluted by unrelated materials. However, some samples may contain multiple layers of paint or caulk, or may have attached material that cannot be separated. In these cases, Credere will consider that the sample results could be subject to dilution due to the comingling of PCB product with non-PCB product. Credere will record notes concerning each sample that had the potential to be subject to dilution (i.e. those with multiple paint layers).

7.6 LBP SCREENING

Painted surfaces will be screened for the presence of lead in the form of LBP using an XRF meter in accordance with the United States Department of Housing, Chapter 7: Lead-Based Paint Inspections, 1997 Revision (HUD Guidelines) and with the Chapter 130 – Lead Paint Poisoning Prevention and Control of New Hampshire Statues (Chapter 130).

The XRF will be properly calibrated and standardized in accordance with the manufacturer's instrument Performance Characteristic Sheet (PCS). Each accessible color and type of paint throughout the Site buildings will be screened. Paints with screening concentrations of lead exceeding 1.0 mg/cm^2 will be considered LBP, and concentrations of lead within the instrument "inconclusive range" according to the instrument PCS will be presumed to also be LBP. If LBP screening results are within the instrument's "inconclusive range" (0.6 to 1.1 mg/cm^2), the presumed LBP coated surface will be screened in triplicate at three adjacent locations on the same surface to assure similar results.

XRF soil screening precision will be assessed by performing precision measurements at one soil screening location. A 7 time replicate will be performed and the relative standard deviation (RSD) will be calculated (RSD = (SD/mean concentrations) x 100). RSD should not exceed 20 percent. If the RSD exceeds the relative percent difference, the XRF will be recalibrated and locations selected for analytical samples will be rescreened to confirm the elevated concentration. Additionally, if the precision test continues to fail, the soil analytical results will be relied upon for future risk assessment and/or remediation planning.

7.7 UNIVERSAL/HAZARDOUS/OTHER WASTE INVENTORY

Materials as described in **Section 6.8** will be manually counted to inventory what will require special disposal prior to building renovation/demolition and preparation of the Site for redevelopment.

8. REGULATORY STANDARDS

Sample results will be compared to the applicable state and/or federal standards/guidelines described below. **Appendix A** includes Analytical Sensitivity and Project Criteria Tables for the Site, which compares regulatory standards for each contaminant to the analytical limits of the laboratory method used.

8.1 SOIL ANALYTICAL RESULTS

Soil analytical results will be compared to the New Hampshire Code of Administrative Rules Chapter Env-Or 600 – Contaminated Site Management Table 600-2 SRSs and Appendix E Method 1 Soil Standards as updated February 2013.

8.2 GROUNDWATER ANALYTICAL RESULTS

Groundwater analytical results will be compared to the New Hampshire Code of Administrative Rules Chapter Env-Or 600 – Contaminated Site Management Table 600-1 Ambient Groundwater Quality Standards (AGQS) and Table 2 Method 1 Groundwater Standards from the NHDES Risk Characterization and Management Policy (Section 7.4(4)) as updated February 2013.

8.3 ASBESTOS RESULTS

Laboratory analytical results for asbestos bulk samples will be compared to the 1% limit specified in Chapter Env-A 1800 – Asbestos Management and Control.

8.4 PCBS IN BUILDING MATERIALS RESULTS

PCB-containing building material results will be compared to the 40 CFR 761.3 definition of PCB Bulk Product Waste of 50 mg/kg (as manufactured), and also the limit of 1 mg/kg for excluded PCB products that would be regulated upon disposal. Where a sample may have been diluted (see **Section 7.5**) a lower limit than 50 mg/kg will be used to determine if the material constitutes PCB Bulk Product Waste. This lower limit will be based on the amount of potential dilution in the sample, but would be in the range of 15 to 25 mg/kg. Additionally, sampled undiluted materials with a PCB concentration of 40 mg/kg or more but less than 50 mg/kg based on one sample of the material may require resampling of this material to confirm that the material is not PCB Bulk Product Waste.

8.5 LBP SCREENING RESULTS

LBP is defined as paint with a lead concentration of 1.0 milligrams per square centimeter (mg/cm^2) or greater in accordance with the United States Department of Housing, Chapter 7: Lead-Based Paint Inspections, 1997 Revision (HUD Guidelines) and with the Chapter 130 – Lead Paint Poisoning Prevention and Control of New Hampshire Statues (Chapter 130). Screening results will be compared to the 1.0 mg/cm^2 standard.

FIGURES

DRAWN BY: **SWM**	DATE: **9/2/2014**
CHECKED BY: **ASD**	PROJECT:**14001247**

Credere Associates, LLC
776 MAIN STREET
WESTBROOK, MAINE
Tel. 207.828.1272
Fax 207.887.1051
WWW.CREDERELLC.COM

FIGURE 1
SITE LOCATION PLAN

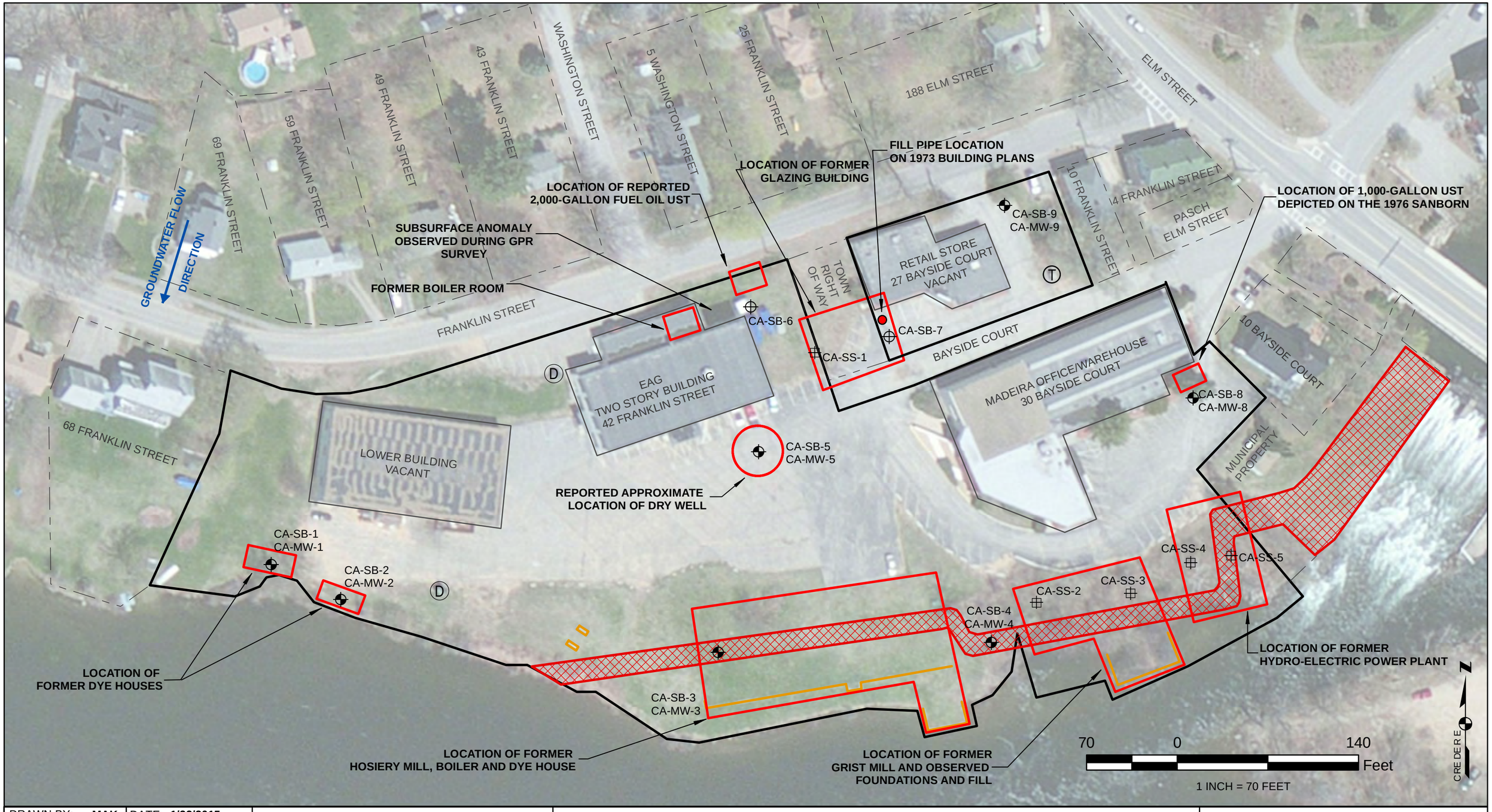
MADEIRA PROPERTY
42 FRANKLIN STREET,
27 AND 30 BAYSIDE COURT
LACONIA, NEW HAMPSHIRE

1,000 0 2,000 Feet

1 INCH = 2,000 FEET

Topographic Map Data Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User

T:\Data\NH\Town\Laconia\14001247 LRPC - Madeira



DRAWN BY: **MAK**	DATE: **1/22/2015**
CHECKED BY: **JBO**	PROJECT: **14001247**

Credere Associates, LLC
776 MAIN STREET
WESTBROOK, MAINE
Tel. 207.828.1272
Fax 207.887.1051
WWW.CREDERELLC.COM

FIGURE 2
SAMPLE LOCATION PLAN

MADEIRA PROPERTY
42 FRANKLIN STREET, 27 & 30 BAYSIDE COURT
LACONIA, NEW HAMPSHIRE 03246

- AREA OF POTENTIAL CONCERN
- APPROXIMATE AREA OF FORMER FLUME AND CANAL
- POINT OF POTENTIAL CONCERN
- SOIL BORING AND MONITORING WELL
- SOIL BORING
- SURFACE SOIL
- OBSERVED FORMER FOUNDATION
- SITE BOUNDARY
- PARCEL BOUNDARY
- BUILDING BOUNDARY
- (T) ELECTRICAL TRANSFORMER
- (D) SOLID WASTE DUMPSTER

NOTES:
1. EXISTING CONDITIONS FEATURES SHOWN ON THIS PLAN ARE APPROXIMATE AND ARE BASED ON INFORMATION OBTAINED FROM THE CITY OF LACONIA GIS, ESRI ORTHO IMAGES AND THE SITE RECONNAISSANCE PERFORMED ON AUGUST 19, 2014.

Ortho Image Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

T:\Data\NH\Town\Laconia\14001247\Madeira

TABLES

Table 1: Sample Reference Table
Madeira Property
42 Franklin Street, 27 Bayside Court, and 30 Bayside Court, Laconia, New Hampshire

Media to be Collected	Proposed Sample IDs[2]	Sample Type	Sample Rationale	Sample Depth (feet bgs)	Field Analysis/ Observations	No. of Samples for Analysis	QA/QC Samples	Analytical Method	Sample Container Information & Preservative (per location)*[1]	Laboratory To be Used
Soil	CA-SB-1	Subsurface Soil	To assess possible contamination from former dye houses (REC #8) and to assess impacts from historical use of the Site (REC #8) and historical fires (REC #6)	Depth of greatest observed contamination or groundwater interface	PID Screening Visual Olfactory	1	1 Field Duplicates 1 MS/MSD (metals only)	VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A)	2 - 8 oz amber glass 1 - 40 mL VOA (methanol)	Absolute Resource Associates, Portsmouth, NH (except asbestos by EMSL, South Portland Maine)
	CA-SB-2					1		VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A)	2 - 8 oz amber glass 1 - 40 mL VOA (methanol)	
	CA-SB-3		To assess releases and industrial fill material in the former canal (REC #7) and to assess impacts from historical use of the Site (REC #8) and historical fires (REC #6)	Depth of greatest observed contamination or observed fill interval		1		VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	2 - 8 oz amber glass 1 - 40 mL VOA (methanol)	
			To assess potential leaching of contaminants to native material beneath the fill and delineate the extent of contamination associated with the former canal fill (REC #7)	First encountered native material beneath the industrial waste fill[2]		1		VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	2 - 8 oz amber glass 1 - 40 mL VOA (methanol)	
	CA-SB-4		To assess releases and industrial fill material in the former canal (REC #7) and to assess impacts from historical use of the Site (REC #8) and historical fires (REC #6)	Depth of greatest observed contamination or observed fill interval		1		VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	2 - 8 oz amber glass 1 - 40 mL VOA (methanol)	
			To assess potential leaching of contaminants to native material beneath the fill and delineate the extent of contamination associated with the former canal fill (REC #7)	First encountered native material beneath the industrial waste fill[2]		1		VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	2 - 8 oz amber glass 1 - 40 mL VOA (methanol)	
	CA-SB-5		To assess possible contamination from the discharge of the former boiler room sump pump to a potential drywell (REC #5)	Depth of greatest observed contamination or groundwater interface		1		VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540) TPH (EPA Method 8015C)	2 - 8 oz amber glass 1 - 40 mL VOA (methanol)	
	CA-SB-6		To assess potential releases from the former UST located off the northeast corner of the two-story building (REC #3)			1		VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) TPH (EPA Method 8015C)	1 - 8 oz amber glass 1 - 40 mL VOA (methanol)	
	CA-SB-7		To assess potential releases from the former UST located off the southwest corner of the retail store (REC #1)			1		VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) TPH (EPA Method 8015C)	1 - 8 oz amber glass 1 - 40 mL VOA (methanol)	
	CA-SB-8		To assess potential releases from the suspect UST located off the southeast corner of the Madeira Office and Warehouse building (REC #2)			1		VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) TPH (EPA Method 8015C) RCRA 8 Metals (EPA Method 6010C & 7470A)	1 - 8 oz amber glass 1 - 40 mL VOA (methanol)	
	CA-SB-9		Background subsurface soil sample in a location perceived to be unconnected to any of the RECs identified for the Site.			1		VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540) TPH (EPA Method 8015C)	2 - 8 oz amber glass 1 - 40 mL VOA (methanol)	
	CA-SS-1	Surface Soil	To assess surface soil impacts from historical use of the Site (REC #8) and historical fires (REC #6) and document surface soil condition in support of Site reuse	0-2		1		Asbestos (CARB 435/PLM by EPA 600/R-93/116) PAHs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	3 - 8 oz amber glass	
	CA-SS-2					1		Asbestos (CARB 435/PLM by EPA 600/R-93/116) PAHs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	3 - 8 oz amber glass	
	CA-SS-3					1		Asbestos (CARB 435/PLM by EPA 600/R-93/116) PAHs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	3 - 8 oz amber glass	
	CA-SS-4					1		Asbestos (CARB 435/PLM by EPA 600/R-93/116) PAHs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	3 - 8 oz amber glass	
	CA-SS-5					1		Asbestos (CARB 435/PLM by EPA 600/R-93/116) PAHs (EPA Method 8270D) RCRA 8 Metals (EPA Method 6010C & 7470A) PCBs (EPA Method 8082 with Soxhlet Method 3540)	3 - 8 oz amber glass	
	CA-LIS-1 , CA-LIS-2, etc.	Surface soil	To assess lead in soil impacts from any identified LBP on exterior of buildings (REC #8 and Environmental Finding 1)	0.0-0.5 0.5-1.0 (as needed)	XRF	0 to 32	1 Field Duplicate and 1 MS/MSD per 20 samples, up to 2	Total Lead (EPA Method 6010C)	1 - 4 oz amber glass	

Table 1: Sample Reference Table
Madeira Property
42 Franklin Street, 27 Bayside Court, and 30 Bayside Court, Laconia, New Hampshire

Media to be Collected	Proposed Sample IDs[2]	Sample Type	Sample Rationale	Sample Depth (feet bgs)	Field Analysis/ Observations	No. of Samples for Analysis	QA/QC Samples	Analytical Method	Sample Container Information & Preservative (per location)*,[1]	Laboratory To be Used
Groundwater	CA-MW-1	Groundwater	To assess possible contamination from former dye houses and to assess impacts from historical fires (REC #6)	Screened interval	Visual Olfactory Interface Probe Temperature pH ORP Spec. Conduct. Dissolved Oxygen Turbidity	1	1 Field Duplicates 1 MS/MSD (metals only)	VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) Dissolved RCRA 8 Metals (EPA Method 6010C/471B)	2 - 1L amber jars 1 - 40 mL VOAs (HCl) 1 - 500 mL poly, filtered (HNO3)	Absolute Resource Associates, Portsmouth, NH
	CA-MW-2					1		VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) Dissolved RCRA 8 Metals (EPA Method 6010C/471B)	2 - 1L amber jars 1 - 40 mL VOAs (HCl) 1 - 500 mL poly, filtered (HNO3)	
	CA-MW-3		To assess releases to and industrial fill material in the former canal (REC #7) and to assess impacts from historical fires (REC #6)			1		VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) Dissolved RCRA 8 Metals (EPA Method 6010C/471B)	2 - 1L amber jars 1 - 40 mL VOAs (HCl) 1 - 500 mL poly, filtered (HNO3)	
	CA-MW-4					1		VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) Dissolved RCRA 8 Metals (EPA Method 6010C/471B)	2 - 1L amber jars 1 - 40 mL VOAs (HCl) 1 - 500 mL poly, filtered (HNO3)	
	CA-MW-5		To assess possible contamination from the discharge of the former boiler room sump pump to a drywell (REC #5)			1		VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) Dissolved RCRA 8 Metals (EPA Method 6010C/471B)	2 - 1L amber jars 1 - 40 mL VOAs (HCl) 1 - 500 mL poly, filtered (HNO3)	
	CA-MW-8		To assess potential releases from the suspect UST located off the southeast corner of the Madeira Office and Warehouse building (REC #2)			1		VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) Dissolved RCRA 8 Metals (EPA Method 6010C/471B)	2 - 1L amber jars 1 - 40 mL VOAs (HCl) 1 - 500 mL poly, filtered (HNO3)	
	CA-MW-9		To assess groundwater in an upgradient location perceived to be unconnected to any of the RECs identified for the Site			1		VOCs (EPA Method 8260C) SVOCs (EPA Method 8270D) Dissolved RCRA 8 Metals (EPA Method 6010C/471B)	2 - 1L amber jars 1 - 40 mL VOAs (HCl) 1 - 500 mL poly, filtered (HNO3)	
Bulk Building Materials	CA-PCB-1 through CA-PCB-20	Building materials	To assess for the presence of PCB containing building materials in the Site buildings (Environmental Finding #1). Data will be used to properly manage building materials during Site renovations.	NA	Visual	20	1 Field Duplicates per 20 samples, up to 2	PCBs (EPA Method 8082 with Soxhlet Method 3540)	Plastic zipper bags	Spectrum Analytical, Agawam, MA
	CA-ACM-1(A-C) through CA-ACM-70(A-C)	Bulk Materials	Three samples will be collected from each suspected asbestos-containing material (REC #4, Environmental Finding #1)	NA	Visual	70 bulk materials	Triplicate Sampling (on most materials)	PLM by EPA 600/R-93/116	Plastic zipper bags	EMSL Analytical, Inc., South Portland, ME

Notes:

1 - All samples will be chilled to 4°C (+/- 2°C) and submitted to the laboratory on ice.

2 - If no fill material is encountered, only one soil sample will be collected for analysis.

* - Additional details regarding analytical method, sample preservation, sample volume, and hold times can be found in Appendix D of Credere's Generic New Hampshire QAPP.

"greatest observed contamination" shall be defined as the interval of highest PID response, visual staining, or sheens.

MS/MSD - Matrix Spike/Matrix Spike Duplicate
NA - not applicable
bgs - below ground surface
DO - Dissolved Oxygen
ORP - Oxidation-reduction potential
SVOCs - semi-volatile organic compounds
VOC - volatile organic compounds
RCRA 8 Metals: As, Be, Cd, Cr, Pb, Hg, Se, Ag
PCB - polychlorinated biphenyl
XRF-X-ray fluorescence meter
PLM - Polarized Light Microscopy
PID - Photo Ionization Detector

Table 2: Standard Operating Procedure (SOP) Reference Table
Madeira Property
42 Franklin Street, 27 Bayside Court, and 30 Bayside Court, Laconia, New Hampshire

Field SOPs

SOP	SOP Description	Date
Credere-001	SOP for Field Measurement of Groundwater Level	March 2008
Credere-004	SOP for Log Book Entries	October 2006
Credere-009	SOPs for Typical Asbestos Bulk and Air Sampling (SOP by: Environmental Safety & Hygiene Associates, Inc.)	NA
HWRB-1	Water Level Measurements, Revision 2	December 2011
HWRB-2	Calculation of Purge Volume, Revision 1	January 2012
HWRB-9	Low Flow Groundwater Purging and Sampling, Revision 5	January 2012
HWRB-11	Soil Sampling, Revision 1	January 2012
HWRB-12	Jar headspace Technique for Field Screening Soil Samples, Revision 2	January 2012
HWRB-15	Decontamination, Revision 3	January 2012
HWRB-17	Calibration of Field Instruments, Revision 4	January 2012
HWRB-18	Chain of Custody, Sample Handling & Shipping, Revision 2	January 2012
RWM-DR-025	Protocol for Collecting Data Using an Innov-X Field Portable X-Ray Fluorescence Spectrometer for Certain metals in Solid Media (Previously included in 10/3/14 SSQAPP for Ferrari Realty Trust Property, Franklin, New Hampshire)	Febraury 29, 2009
EPASOP#2048	Monitoring Well Installation	March 18, 1996
EIASOP_POROUSSAMPLING1	Standard Operating Procedure for Sampling Porous Surfaces for PCBs	May 5, 2011
EIASOP_SOILSAMPLING2	Standard Operating Procedure for Soil, Sediment and Solid Waste Sampling	Rev #2, February 13, 2004
EPA 600/R-93/116	Method for the Determination of Asbestos in Bulk Building Materials	July 1993
EQAGUI-DO	Quality Assurance Bulletin for Calibration of Dissolved Oxygen Meters	February 2006
EQASOP_FieldCalibrat	Standard Operating Procedure Calibration of Field Instruments	Rev #2, January 19, 2010
EQASOP-GW 001	Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells	Rev #3, January 19, 2010

Laboratory SOPs

SOP	SOP Description	Date
EMSL: PLM SOP	Polarized Light Microscopy	November 12, 2010
EMSL: CARB SOP	CARB Method 435 - Asbestos Analysis of Bulk Materials by PLM	September 20, 2013
RL-4	Analysis of Polychlorinated Biphenyls in Soil and Water Extracts by EPA 8082	January 2013
RL-5	Trace Metals by ICP EPA 200.7/6010C	January 2013
RL-6	Mercury Analysis by Cold Vapor Methods 245.1, 7470A/7471B	January 2013
RL-7	Analysis of Diesel Range Organics in Extracts of Soil and Water by Method 8015 and Method 8100	August 2011
RL-9	Analysis of VOCs in Water and Solid Samples by EPA Method 8260B	June 2012
RL-12	Preparation and analysis of PAHs, Base/Neutrals, and Acids by EPA Method 8270D	August 2011
RL-28	Soxhlet Extraction by EPA method 3540C	August 2011

APPENDIX A

Analytical Sensitivity and Project Criteria Tables

As of the date of this SSQAPP Addendum, the current state and/or federal standards have been reviewed for accuracy.

Asbestos in Solids by PLM by EPA Method 600/R		
Analyte	**Laboratory Practical Quantitation Limit**	**Regulatory Standard[1]**
Asbestos	0.20%	1%

Notes:

1 - New Hampshire Department of Environmental Services Chapter 1800: Asbestos Management Control, October 21, 2008.
PQL from EMSL of Cinnamonsin, New Jersey

VOCs in Soil by EPA Method 8260C		
Analyte	**Laboratory Practical Quantitation Limit**	**Regulatory Standard[1]**
1,1,1,2-tetrachloroethane	0.1	0.8
1,1,1-trichloroethane	0.1	78
1,1,2,2-tetrachloroethane	0.1	4
1,1,2-trichloroethane	0.1	0.1
1,1-dichloroethane	0.1	3
1,1-dichloroethe	0.1	2
1,1-dichloropropene	0.1	NE
1,2,3-trichlorobenzene	0.1	4.9
1,2,3-trichloropropane	0.1	0.2
1,2,4-trichlorobenzene	0.1	19
1,2,4-trimethylbenzene	0.1	130
1,2-dibromo-3-chloropropane (DBCP)	0.1	0.1
1,2-dibromoethane (EDB)	0.1	0.1
1,2-dichlorobenzene	0.1	88
1,2-dichloroethane	0.1	0.1
1,2-dichloropropane	0.1	0.1
1,3,5-trichlorobenzene	0.1	340
1,3,5-trimethylbenzene	0.1	96
1,3-dichlorobenzene	0.1	150
1,3-dichloropropane	0.1	160*
1,4-dichlorobenzene	0.1	7
1,4-dioxane	2	5
2,2-dichloropropane	0.1	NE
2-butanone (MEK)	0.3	51
2-chlorotoluene	0.1	15
2-hexanone	0.5	20
4-chlorotoluene	0.1	2,400
4-isopropyltoluene	0.1	3,400
4-methyl-2-pentanone (MIBK)	0.4	29
acetone	2	75
benzene	0.1	0.3
bromobenzene	0.1	6.2
bromochloromethane	0.1	8.3
bromodichloromethane	0.1	0.1
bromoform	0.1	0.1
bromomethane	0.2	0.3
carbon disulfide	0.1	460
carbon tetrachloride	0.1	12
chlorobenzene	0.1	28
chloroethane	0.1	NE
chloroform	0.1	0.73
chloromethane	0.1	3
cis-1,2-dichloroethene	0.1	NE
cis-1,3-dichloropropene	0.1	NE
dibromochloromethane	0.1	1
dibromomethane	0.1	25*
dichlorodifluoromethane	0.1	1,000
diethyl ether	0.1	3,900
diisopropyl ether (DIPE)	0.1	10
ethyl t-butyl ether (ETBE)	0.1	0.7

VOCs in Soil by EPA Method 8260C		
Analyte	**Laboratory Practical Quantitation Limit**	**Regulatory Standard[1]**
ethylbenzene	0.1	140
hexachlorobutadiene	0.1	7
isopropylbenzene	0.1	330
m&p-xylenes	0.1	500**
methyl t-butyl ether (MTBE)	0.1	0.2
methylene chloride	0.1	0.1
naphthalene	0.1	5
n-butylbenzene	0.1	110
n-propylbenzene	0.1	85
o-xylene	0.1	500**
sec-butylbenzene	0.1	130
styrene	0.1	17
t-amyl-methyl ether (TAME)	0.1	3
t-butanol (TBA)	2	2
tert-butylbenzene	0.1	100
tetrachloroethene (ethylene, PCE)	0.1	2
tetrahydrofuran (THF)	0.5	200
toluene	0.1	100
trans-1,2-dichloroethene (ethylene)	0.1	9
trans-1,3-dichloropropene	0.1	NE
trichloroethene (TCE)	0.1	0.8
trichlorofluoromethane	0.1	1,000
vinyl chloride	0.1	1

Notes:

All values are in mg/kg.

PQLs from Absolute Resource Associates of Portsmouth, New Hampshire

1 - New Hampshire Department of Environmental Services (NHDES) Chapter 600 Soil Remediation Standards and Appendix E, Method 1 Soil Standards from NHDES Risk Characterization and Management Policy, unless marked with an *.

* - United States Environmental Protection Agency Regions 3, 6, and 9. (accessed May 2014). Regional Screening Levels for Chemical Contaminants at Superfund Sites (Residential Soil). http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm

** NDHES mixed isomer standard.

NE = Regulatory guideline not established

VOCs in Groundwater by EPA Method 8260C			
Analyte	**Laboratory Practical Quantitation Limit**	**Regulatory Standards[1]**	
		AGQS and GW-1	**GW-2**
1,1,1,2-tetrachloroethane	2	70	NE
1,1,1-trichloroethane	2	200	27,000
1,1,2,2-tetrachloroethane	2	2	120
1,1,2-trichloroethane	2	5	20
1,1-dichloroethane	2	81	130
1,1-dichloroethene	1	7	630
1,1-dichloropropene	2	NE	NE
1,2,3-trichlorobenzene	2	0.7*	NE
1,2,3-trichloropropane	2	40	NE
1,2,4-trichlorobenzene	2	70	150
1,2,4-trimethylbenzene	2	330	1,300
1,2-dibromo-3-chloropropane (DBCP)	2	0.2	NE
1,2-dibromoethane (EDB)	2	0.05	NE
1,2-dichlorobenzene	2	600	14,000
1,2-dichloroethane	2	5	50
1,2-dichloropropane	2	5	50
1,3,5-trichlorobenzene	2	40	NE
1,3,5-trimethylbenzene	2	330	NE
1,3-dichlorobenzene	2	600	NE
1,3-dichloropropane	2	37*	NE
1,4-dichlorobenzene	2	75	80
1,4-dioxane	50	3	NE
2,2-dichloropropane	2	NE	NE
2-butanone (MEK)	10	4,000	50,000
2-chlorotoluene	2	100	NE
2-hexanone	10	3.8*	NE
4-chlorotoluene	2	25*	NE
4-isopropyltoluene	2	260	NE
4-methyl-2-pentanone (MIBK)	10	2,000	NE
acetone	50	6,000	NE
benzene	2	5	2,900
bromobenzene	2	6,2	NE
bromochloromethane	2	8.3	NE
bromodichloromethane	0.6	0.6	NE
bromoform	2	4	2,800
bromomethane	2	10	10
carbon disulfide	2	70	NE
carbon tetrachloride	2	0.2	10
chlorobenzene	2	7.8	1,500
chloroethane	2	NE	NE
chloroform	2	70	70
chloromethane	2	30	NE
cis-1,2-dichloroethene	2	70	NE
cis-1,3-dichloropropene	2	NE	NE
dibromochloromethane	2	60	NE

VOCs in Groundwater by EPA Method 8260C

Analyte	Laboratory Practical	Regulatory Standards[1]	
dibromomethane	2	0.8	NE
dichlorodifluoromethane	2	1,000	NE
diethyl ether	5	1,400	NE
ethyl t-butyl ether (ETBE)	2	40	NE
ethylbenzene	2	700	1,500
hexachlorobutadiene	0.5	0.5	NE
diisopropyl ether (DIPE)	2	120	NE
isopropylbenzene	2	800	NE
m&p-xylenes	2	10,000**	17,000
methyl t-butyl ether (MTBE)	2	13	2,600
methylene chloride	5	5	24,000
naphthalene	5	20	1,700
n-butylbenzene	2	260	NE
n-propylbenzene	2	260	NE
o-xylene	2	10,000**	17,000
sec-butylbenzene	2	260	NE
styrene	2	100	43,00
t-amyl-methyl ether (TAME)	2	140	NE
t-butanol (TBA)	30	40	NE
tert-butylbenzene	2	260	NE
tetrachloroethene	2	5	240
tetrahydrofuran (THF)	10	154	NE
toluene	2	1,000	50,000
trans-1,2-dichloroethene	2	100	560
trans-1,3-dichloropropene	2	NE	NE
trichloroethene	2	5	20
trichlorofluoromethane	2	2,000	NE
vinyl chloride	2	2	4

Notes:

All values are in ug/L.

PQLs from Absolute Resource Associates of Portsmouth, New Hampshire

1 - New Hampshire Department of Environmental Services (NHDES) Chapter 600 Ambient Groundwater Quality Standards and Table 2, Method 1 Groundwater Standards for NHDES Risk Characterization and Management Policy (Section. 7.4(4)), unless marked with an *.

* - United States Environmental Protection Agency Regions 3, 6, and 9. (accessed May 2014). Regional Screening Levels for Chemical Contaminants at Superfund Sites. http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm

** - NHDES mixed isomer NOTE

NHDES mixed isomer standard.

NE = Regulatory guideline not established.

SVOC in Soil by EPA Method 8270D		
Analyte	**Laboratory Practical Quantitation Limit**	**Regulatory Standard[1]**
1,2,4-trichlorobenzene	0.5	19
1,2-dichlorobenzene	0.2	88
1,3-dichlorobenzene	0.2	150
1,4-dichlorobenzene	0.2	7
2,4,5-trichlorophenol	0.2	24
2,4,6-trichlorophenol	0.2	0.7
2,4-dichlorophenol	0.5	0.7
2,4-dimethylphenol	0.2	4
2,4-dinitrophenol	5	0.7
2,4-dinitrotoluene	0.2	0.7
2,6-dinitrotoluene	0.2	0.36
2-chloronaphthalene	0.5	NE
2-chlorophenol	0.5	2
2-methylnaphthalene	0.05	96
2-methylphenol	0.2	0.9
2-nitroaniline	0.2	61
2-nitrophenol	0.2	NE
3,3'-dichlorobenzidine	3	0.7
3-nitroaniline	0.2	NE
4,6-dinitro-2-methylphenol	2	4.9*
4-bromophenyl phenyl ether	0.2	NE
4-chloro-3-methylphenol	0.2	6,100*
4-chloroaniline	0.2	1.3
4-chlorophenyl phenyl ether	0.5	NE
4-methylphenol	0.2	0.7
4-nitroaniline	0.5	25
4-nitrophenol	2	NE
acenaphthene	0.05	340
acenaphthylene	0.05	490
aniline	0.2	43
anthracene	0.05	1000
azobenzene	0.2	5,6
benzidine	3	0.004
benzo(a)anthracene	0.05	1
benzo(a)pyrene	0.05	0.7
benzo(b)fluoranthene	0.05	1
benzo(g,h,i)perylene	0.05	960
benzo(k)fluoranthene	0.05	12
benzoic acid	5	350
benzyl alcohol	0.2	620
bis(2-chloroethoxy)methane	0.2	18
bis(2-chloroethyl)ether	0.2	0.7
bis(2-chloroisopropyl) ether	0.2	5
bis(2-ethylhexyl)phthalate	0.5	72
butyl benzyl phthalate	0.5	280
carbazole	0.2	NE
chrysene	0.05	120
dibenzo(a,h)anthracene	0.05	0.7
dibenzofuran	0.05	0.72

SVOC in Soil by EPA Method 8270D

Analyte	Laboratory Practical Quantitation Limit	Regulatory Standard[1]
diethyl phthalate	0.5	1000
dimethylphthalate	0.5	700
di-n-butylphthalate	0.5	2,600
di-n-octyl phthalate	0.5	NE
fluoranthene	0.05	960
fluorene	0.05	77
hexachlorobenzene	0.2	0.8
hexachlorobutadiene	0.2	7
hexachlorocyclopentadiene	1	200
hexachloroethane	0.2	0.7
indeno(1,2,3-cd)pyrene	0.05	1
isophorone	0.5	1
naphthalene	0.05	5
nitrobenzene	0.2	5.1
N-nitrosodimethylamine	0.2	0.024
N-nitroso-di-N-propylamine	0.2	0.076
N-nitrosodiphenylamine	0.2	0.19
pentachlorophenol	1	3
phenanthrene	0.05	960
phenol	0.2	56
pyrene	0.05	720

Notes:

All values are in mg/kg.

PQLs from Absolute Resource Associates of Portsmouth, New Hampshire

1 - New Hampshire Department of Environmental Services (NHDES) Chapter 600 Soil Remediation Standards and Appendix E, Method 1 Soil Standards from NHDES Risk Characterization and Management Policy, unless marked with an *.

NE = Regulatory guideline not established

* - United States Environmental Protection Agency Regions 3, 6, and 9. (accessed May 2014). Regional Screening Levels for Chemical Contaminants at Superfund Sites. http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm

SVOC in Groundwater by EPA Method 8270D			
Analyte	**Laboratory Practical Quantitation Limit**	**Regulatory Standard[1]**	
		AGQS and GW-1	**GW-2**
1,2,4-trichlorobenzene	5	70	150
1,2-dichlorobenzene	2	600	14,000
1,3-dichlorobenzene	2	600	NE
1,4-dichlorobenzene	2	75	80
2,4,5-trichlorophenol	2	700	NE
2,4,6-trichlorophenol	2	5	NE
2,4-dichlorophenol	5	21	NE
2,4-dimethylphenol	2	140	NE
2,4-dinitrophenol	50	14	NE
2,4-dinitrotoluene	2	10	NE
2,6-dinitrotoluene	2	0.048	NE
2-chloronaphthalene	5	550*	NE
2-chlorophenol	5	35	NE
2-methylnaphthalene	0.5	280	NE
2-methylphenol	2	40	NE
2-nitroaniline	2	19	NE
2-nitrophenol	2	NE	NE
3,3'-dichlorobenzidine	30	1.3	NE
3-nitroaniline	2	NE	NE
4,6-dinitro-2-methylphenol	20	1.2*	NE
4-bromophenyl phenyl ether	2	NE	NE
4-chloro-3-methylphenol	2	1,100*	NE
4-chloroaniline (p-)	2	28	NE
4-chlorophenyl phenyl ether	5	NE	NE
4-methylphenol	2	40	NE
4-nitroaniline	5	3.8	NE
4-nitrophenol	10	NE	NE
acenaphthene	0.5	420	NE
acenaphthylene	0.5	420	NE
aniline	2	12*	NE
anthracene	0.5	2100	NE
azobenzene	2	0.12	NE
benzidine	30	0.8	NE
benzo(a)anthracene	0.5	0.1	NE
benzo(a)pyrene	0.2	0.2	NE
benzo(b)fluoranthene	0.5	0.1	NE
benzo(g,h,i)perylene	0.5	210	NE
benzo(k)fluoranthene	0.5	0.5	NE
benzoic acid	50	28,000	NE
benzyl alcohol	2	200	NE
bis(2-chloroethoxy)methane	5	5.9	NE
bis(2-chloroethyl)ether	2	10	NE
bis(2-chloroisopropyl) ether	2	300	NE
bis(2-ethylhexyl)phthalate	5	6	NE
butyl benzyl phthalate	5	14*	NE
carbazole	2	NE	NE
chrysene	0.5	5	NE
dibenzo(a,h)anthracene	0.5	0.1	NE
dibenzofuran	0.5	0.79	NE
diethyl phthalate	5	1,500	NE

SVOC in Groundwater by EPA Method 8270D			
Analyte	Laboratory Practical	Regulatory Standard[1]	
dimethylphthalate	5	50,000	NE
di-n-butylphthalate	5	2,600	NE
di-n-octyl phthalate	2	20	NE
fluoranthene	0.5	280	NE
fluorene	0.5	280	NE
hexachlorobenzene	2	1	NE
hexachlorobutadiene	2	0.5	NE
hexachlorocyclopentadiene	10	50	NE
hexachloroethane	2	1	NE
indeno(1,2,3-cd)pyrene	0.5	0.1	NE
isophorone	5	100	NE
naphthalene	0.5	20	1,700
nitrobenzene	2	0.14	NE
N-nitrosodimethylamine	2	0.00049*	NE
N-nitroso-di-N-propylamine	2	0.011	NE
N-nitrosodiphenylamine	2	12	NE
pentachlorophenol	10	1	NE
phenanthrene	0.5	210	NE
phenol	2	4000	NE
pyrene	0.5	210	NE

Notes:

All values are in ug/L.

PQLs from Absolute Resource Associates of Portsmouth, New Hampshire

1 - New Hampshire Department of Environmental Services (NHDES) Chapter 600 Ambient Groundwater Quality Standards and Table 2, Method 1 Groundwater Standards for NHDES Risk Characterization and Management Policy (Section. 7.4(4)), unless marked with an *.

* United States Environmental Protection Agency Regions 3, 6, and 9. (accessed May 2014). Regional Screening Levels for Chemical Contaminants at Superfund Sites. http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm

PAHs in Soil by EPA Method 8270D

Analyte	Laboratory Practical Quantitation Limit	Regulatory Standard[1]
2-methylnaphthalene	0.5	96
acenaphthene	0.5	340
acenaphthylene	0.5	490
anthracene	0.5	1,000
benzo(a)anthracene	0.5	1
benzo(a)pyrene	0.5	0.7
benzo(b)fluoranthene	0.5	1
benzo(g,h,i)perylene	0.5	960
benzo(k)fluoranthene	0.5	12
chrysene	0.5	120
dibenzo(a,h)anthracene	0.5	0.7
dibenzofuran	0.5	7.2
fluoranthene	0.5	960
fluorene	0.5	77
indeno(1,2,3-cd)pyrene	0.5	1
naphthalene	0.5	5
phenanthrene	0.5	960
pyrene	0.5	720

Notes:

All values are in mg/kg.

PQLs from Absolute Resource Associates of Portsmouth, New Hampshire

1 - New Hampshire Department of Environmental Services (NHDES) Chapter 600 Soil Remediation Standards and Appendix E, Method 1 Soil Standards from NHDES Risk Characterization and Management Policy, unless marked with an *.

* - United States Environmental Protection Agency Regions 3, 6, and 9. (accessed May 2014). Regional Screening Levels for Chemical Contaminants at Superfund Sites. http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm

NE = Regulatory guideline not established

RCRA 8 Metals in Soil by EPA Methods 6010C

Analyte	Laboratory Practical Quantitation Limit	Regulatory Standard[1]
Arsenic	0.5	11
Barium	2	1,000
Cadmium	0.2	33
Chromium (III)	2	1,000
Lead	0.5	400
Selenium	2	180
Silver	0.4	89

Notes:

All values are in mg/kg.

PQLs from Absolute Resource Associates of Portsmouth, New Hampshire

1 - New Hampshire Department of Environmental Services (NHDES) Chapter 600 Soil Remediation Standards and Appendix E, Method 1 Soil Standards from NHDES Risk Characterization and Management Policy, unless marked with an *.

RCRA 8 Metals in Groundwater by EPA Method 6010C

Analyte	Laboratory Practical Quantitation Limit	Regulatory Standard[1]
Arsenic	8	10
Barium	50	2,000
Cadmium	4	5
Chromium (TOTAL)	50	100
Lead	8	15
Selenium	50	50
Silver	7	100

Notes:

All values are in ug/L.

PQLs from Absolute Resource Associates of Portsmouth, New Hampshire

1 - New Hampshire Department of Environmental Services (NHDES) Chapter 600 Ambient Groundwater Quality Standards and Table 2, Method 1 Groundwater Standards for NHDES Risk Characterization and Management Policy (Section. 7.4(4)), unless marked with an *.

Hg in Soil by EPA Methods 7471B		
Analyte	**Laboratory Practical Quantitation Limit**	**Regulatory Standard[1]**
Mercury	0.02	6

Notes:
All values are in mg/kg.
PQLs from Absolute Resource Associates of Portsmouth, New Hampshire
1 - New Hampshire Department of Environmental Services (NHDES) Chapter 600 Soil Remediation Standards and Appendix E, Method 1 Soil Standards from NHDES Risk Characterization and Management Policy.

Hg in Groundwater by EPA Methods 7470A		
Analyte	**Laboratory Practical Quantitation Limit**	**Regulatory Standard[1]**
Mercury	0.2	2

Notes:

All values are in ug/L.

PQLs from Absolute Resource Associates of Portsmouth, New Hampshire

1 - New Hampshire Department of Environmental Services (NHDES) Chapter 600 Ambient Groundwater Quality Standards and Table 2, Method 1 Groundwater Standards for NHDES Risk Characterization and Management Policy (Section. 7.4(4)).

PCBs in Building Materials by EPA Method 8082

Analyte	Laboratory Practical Quantitation Limit	Remediation Waste Cleanup Goals 40 CFR 761.61		Regulatory Standard (40 CFR 761.3)
		High Occupancy	Low Occupancy	
PCB-1016	0.2	1 (Total)	25 (Total)	50 (Total)
PCB-1221	0.2			
PCB-1232	0.2			
PCB-1242	0.2			
PCB-1248	0.2			
PCB-1254	0.2			
PCB-1260	0.2			

Notes:
All values are in mg/kg.

PCBs in Soil by EPA Method 8082A

Analyte	Laboratory Practical Quantitation Limit	Regulatory Standard[1]
PCB-1016	0.2	1 (Total)
PCB-1221	0.2	
PCB-1232	0.2	
PCB-1242	0.2	
PCB-1248	0.2	
PCB-1260	0.2	

Notes:

PQLs from Absolute Resource Associates of Portsmouth, New Hampshire

1 - New Hampshire Department of Environmental Services (NHDES) Chapter 600 Soil Remediation Standards and Appendix E, Method 1 Soil Standards from NHDES Risk Characterization and Management Policy.

All concentrations in mg/kg

NE = Regulatory guideline not established

TPH in Solids by EPA Method 8100		
Analyte	**Laboratory Practical Quantitation Limit**	**Regulatory Standard[1]**
Total Petroleum Hydrocarbons	200	10,000

Notes:
All values are in mg/kg.
PQLs from Absolute Resource Associates of Portsmouth, New Hampshire
1 - New Hampshire Department of Environmental Services (NHDES) Chapter 600 Soil Remediation Standards and Appendix E, Method 1 Soil Standards from NHDES Risk Characterization and Management Policy, unless marked with an *.

APPENDIX B

Method 435 Asbestos in Soil Preparation

EMSL Analytical S.O.P.

CARB Method 435
Asbestos Analysis of Bulk Material by PLM

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1.0 Method Description

1.1 Applicable Matrix
This procedure was designed for aggregate but can be used for soil and other bulk materials. It lends itself particularly well to soil, rock and vermiculite samples.

1.2 Scope and application
This procedure may be used on most bulk sample materials. It is particularly useful on samples or matrices that pose trouble in regards to homogenizing and freeing sample components using normal prep techniques. The milling is followed by PLM analysis carried out to a targeted analytical sensitivity.

1.3 Summary of Method
Samples are optionally dried and milled prior to analysis. The milling process employs a cryomill to pulverize the sample to an approximate particle size of ≤75µm. Stereomicroscopy and PLM analysis are performed on the milled sample.

1.4 Detection Limit
The detection limit for this procedure is dependent on the total points counted and is 0.25% for Level A (400 Point Count) and 0.10% for Level B (1000 Point Count).

2.0 Interferences

Interferences for this method include but are not limited to:

2.1 Non-regulated asbestos minerals such as the two polymorphs of Chrysotile, Lizardite and Antigorite.

2.2 Non-regulated amphiboles such as winchite and richterite, and pyroxenes.

2.3 Cleavage fragments of the regulated asbestos types which may at times have aspect ratios similar to the true asbestiform varieties.

2.4 Clay minerals that can have similar morphology to asbestos such as sepiolite and pallygorskite.

2.5 All non-asbestos particulate, fibrous or not, which can partially or completely obscure asbestos fibers.

3.0 Definitions

3.1 Asbestos - Generic term for a group of hydrated silicate minerals.

3.2 Aspect Ratio - The ratio of the length to width of a particle.

3.3 Dispersion Staining - Method of rapidly determining refractive index using a particles ability to bend various wavelengths of light in differing amount.

3.4 Laboratory Blanks - A known negative material prepped and analyzed along with samples.

3.5 Non-Empty Point - A graticle point that is superimposed on a particle, either asbestos or non-asbestos.

3.6 PLM - Polarized Light Microscope

3.7 Point Count - Method of quantitation that utilizes tabulation of randomly superimposed points from a reticule (either cross hair or Chalkley) to determine percentages of sample components.

3.8 Refractive Index - Measure of the speed of light passing through an object as compared to the speed of light through air.

4.0 Safety

All personnel performing preparation and/or analysis of samples must be familiar with the EMSL Chemical Hygiene Plan (EMSLChemHygiene 200.0).

4.1 Asbestos

4.1.1 While there is no guarantee that asbestos is present in the samples, prudent measures must be taken to prevent any possible airborne asbestos fiber release from occurring during sample handling.

4.1.2 Sample handling should be performed under the safety hood.

4.1.3 All safety hoods should be capable of flow rates ≥ 75 lfm.

4.2 Liquid Nitrogen

4.2.1 Liquid nitrogen is extremely cold and care should be taken to avoid skin contact

4.2.2 Appropriate clothing (lab coat, heavy gloves) should be worm while handling liquid nitrogen.

4.2.3 Excess nitrogen gas may cause a lack of oxygen in the local vicinity. A build up of nitrogen gas (as produced when the liquid evaporates) should be avoided by using only in non-confined spaces.

5.0 Equipment and Supplies

5.1 Applicator sticks or tongue depressors
5.2 Centrifuge tubes (flat bottom), 50 ml
5.3 Disposable aluminum tins of varying size
5.4 Disposable 500 ml (16 oz.) plastic jars with lids
5.5 Fine forceps
5.6 Freezer mill (Spex 6850)
5.7 HEPA Laminar Flow Hood
5.8 Sieves – 3/8 inch and 250 microns
5.9 Vortex Mixer
5.10 Glass microscope slides
5.11 Glass Cover slips
5.12 Scalpel handle and clean disposable scalpel blades

6.0 Reagents and Standards

All reagents should be of recognized analytical grade or better:

6.1 Concentrated HCl
6.2 Fiber free de-ionized water
6.3 Liquid Nitrogen
6.4 Refractive Index Liquids
6.5 NIST 1866 and 1867 asbestos standards
6.6 Non-Asbestos standards

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7.0 Sample Collection, Preservation, Shipment and Storage

7.1 Obtaining a representative sample from the field is the client's responsibility.

7.2 4 - 8 oz samples should be submitted, 50 ml centrifuge tubes and/or 8 oz. glass or plastic wide mouth containers should be available in the lab for client use.

7.3 No preservation is necessary; samples that are wet should be submitted as soon as possible to prevent biological growth prior to analysis.

7.4 Only one sample per container should be submitted.

7.5 Samples are retained in an easily retrievable manner for a minimum of 60 days.

8.0 Calibration and Standardization

Each major component of the method is calibrated and/or standardized including the analyst. Examples follow:

8.1 The cryo mill is calibrated to determine milling time vs. particle size.

8.2 The Polarized Light Microscope is calibrated to:

- **8.2.1** Verify the orientation of the polarizers
- **8.2.2** Center the objectives with the rotational axis of the stage
- **8.2.3** Alignment of central dispersion stop and sub stage condenser with the stage's rotational axis.

8.3 Calibration of refractive index liquids to ± 0.004

9.0 Procedure

9.1 Sample Receipt

- **9.1.1** Upon receipt of samples, check that the sample information on the Chain of Custody (COC) matches the information on the samples and other paperwork. Any discrepancies must be resolved before proceeding.
- **9.1.2** If the samples do not have a COC then one is completed at the time of log in. Have the client fill out the necessary information completely.
- **9.1.3** Information required on the Chain of Custody includes:
  - **9.1.3.1** Client name, address, telephone number, contact person, fax number
  - **9.1.3.2** Project number/ name, state where samples where taken
  - **9.1.3.3** Number of samples sent and sample ID's
  - **9.1.3.4** Type of analysis requested
  - **9.1.3.5** Sample volumes or areas if applicable
  - **9.1.3.6** Turn around time. "RUSH" is not acceptable
  - **9.1.3.7** A date and signature of the person relinquishing the samples
  - **9.1.3.8** All samples MUST be accounted for with the proper sample ID's
  - **9.1.3.9** All samples MUST be sealed, properly bagged and undamaged.
- **9.1.4** All samples must be clocked in at the time of receipt and signed and dated by an EMSL employee. If the lab does not have clock for sample receipt the receiving employee should record the time of receipt also.
- **9.1.5** Check to see if the samples match the COC and if the samples are open, damaged, or contaminated. If the samples are damaged or if the COC does not match, notify the client.

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9.2 Sample Log In

If all of the above criteria for sample receiving are met then the samples can be logged in to Sample Master (LIMS) as per the Sample Master SOP.

9.2.1 This process will assign a unique EMSL order number for the project as well as unique lab sample ID's.

9.2.2 Sample Master generates an Internal Chain of Custody and the appropriate bench sheets for the analysis.

9.3 Preparation

9.3.1 All samples received must be dried in a drying oven prior to further preparation. If the sample submitted is larger than 8 oz. it can be homogenized with multiple passes through a riffle splitter. If the sample is submitted wet it will need to be dried prior to riffle splitting.

9.3.2 Place the sample in a disposable aluminum tin and place in the drying oven until its weight is stabilized. A typical drying time of 8-12 hours at 100 degrees C will be sufficient in most cases. Excessively wet samples may affect turnaround times.

9.3.3 If the sample contains rocks and other material larger than 3/8 inch they will be excluded from analysis by passing the sample through a 3/8 inch sieve.

9.3.4 If possible, large soil clumps should be (gently) forced through the sieve. At client request the sample can be sent out for crushing at an external facility.

9.3.5 As a modification to the method: If the sample is suspected to have a significant organic component, the sample can be gravimetrically reduced by ashing in a muffle furnace at 480 degrees C. (Follow the prep procedure in EMSL's TEM NOB Analysis SOP)

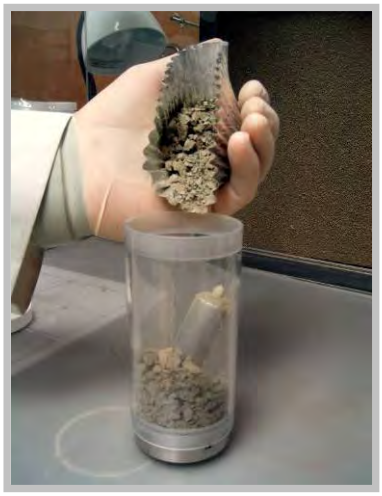
9.3.6 As a modification to the method: If the sample is known or suspected of having a significant carbonate component, then the sample can be gravimetrically reduced with hydrochloric acid. (Follow the prep procedure in EMSL's TEM NOB Analysis SOP)

9.3.7 Within a HEPA filtered hood, the sample is added to a clean milling vial (one steel end cap and the stainless steel rod (hammer) already inserted) for the Spex freezer mill.

9.3.7.1 The vial should be filled no more than 3/4 full, otherwise milling efficiency is reduced.

9.3.7.2 Soil and Rock samples are milled in the large milling chamber.

9.3.7.3 Vermiculite samples are milled in quadruplicate using the smaller milling chambers to avoid damaging the larger chamber end caps.



9.3.8 Place the second steel end cap on securely.

9.3.9 Place the vial into the mill, lock the vial in place and pre-cool the sample in the liquid nitrogen bath of the mill for at least two minutes.

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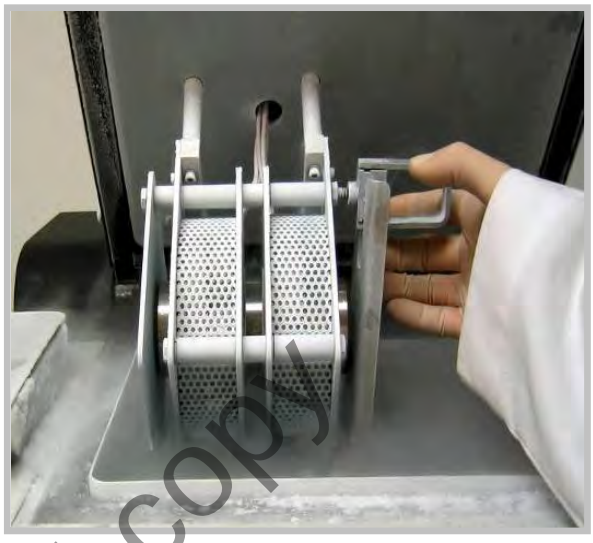

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9.3.10 Mill the sample at liquid Nitrogen temperature for 4-6 minutes (depending on the matrix). This milling time will allow the majority of the sample to pass through a 75 µm dry sieve, and has been pre-determined.

9.3.11 After milling is complete, remove the vial from the mill and place in a HEPA or fume hood.

9.3.12 With the vial inside the hood, invert and/or roll the vial to further homogenize the milled powder.

9.3.13 Remove the end cap with the end cap extractor. Important Note: Sample contents can be under pressure from the temperature differentials and can expel outward upon opening. It is best to open with end cap towards the back of the hood when opening to prevent any possible spillage or exposure.

9.3.14 Transfer the milled sample (in a hood) to a 50 ml disposable centrifuge tube with lid.

9.3.15 Any excess milled material, after the 50 ml vial is filled, can be poured into a large disposable jar within the hood for eventual disposal.

9.3.16 If available, homogenize the sample in the centrifuge tube with a vortex mixer on full power.

9.4 Analysis

9.4.1 Samples of the milled material are observed by stereoscope for homogeneity and preliminary fiber identification.

9.4.2 Remove a pinch aliquot of bulk material from the milled sample and place on a clean microscope slide with a drop or two of 1.550 RI liquid.

If during the identification process other asbestiforms are suspected to be present due to their morphology, then additional preps will be made with the appropriate RI oils. Evenly distribute the material in the liquid and on the slide with a clean scalpel blade.

9.4.3 Add a cover slip on top of the preparation and tap lightly with a clean instrument (probe, pencil eraser, etc.) to expel air bubbles and let the liquid fill all areas under the cover slip.

9.4.4 Scan the slide, looking for suspect asbestos fibers.

9.4.4.1 If chrysotile is suspected to be present, identify at least the first four (4) chrysotile fibers by the procedures in EMSL's PLM SOP Section 9.4.

9.4.4.2 If possible amphibole asbestos fibers are encountered, return to step 9.4.1 and reprep using 1.680 RI liquid. If amosite or crocidolite fibers are then found to be present, identify at least the first four (4) fibers of each type by the procedures in EMSL's PLM SOP Section 9.4.

9.4.4.3 If, after observation in 1.680 RI liquid, the suspect fibers are thought to be either tremolite, actinolite or anthophyllite, return to step 9.4.1 and reprep using 1.625 RI liquid. If tremolite, actinolite or anthophyllite fibers are found to be present, identify at least the first four (4) fibers of each type by the procedures in EMSL's PLM SOP Section 9.4.

9.4.4.4 If no asbestos is found to be present, return to step 9.4.1 and prepare two (2) additional preps. Identify all fibers in at least 10 fields of view for each prep. If no asbestos is encountered analysis can be terminated; continue with step 9.4.10. If any one fiber is found to be asbestos, continue with step 9.4.5.

9.4.5 If asbestos was identified in step 9.4.4 above and the content is estimated to be >10%, proceed to step 9.4.10.

9.4.6 Asbestos quantitation is performed by point counting. Return to step 9.4.1 and prepare enough slides of appropriate RI liquid so that a total of at least 8 slides are available for point counting. Slides appropriate for point counting are as follows:

9.4.6.1 The preparation should not be heavily loaded.

9.4.6.2 The sample should be uniformly dispersed to avoid overlapping particles and allow 25-50% empty area within a field of view.

9.4.6.3 Using the correct RI liquid to identify the asbestos fibers present.

9.4.7 An ocular reticule with a point count array (Chalkley) or cross hair graticle is superimposed on the microscope field of view. Points are counted only when the point is positioned directly above a particle (non-empty point). Points that are superimposed on empty space (empty point) are not counted. Point counts are recorded on EMSL's PLM Point Count Worksheet.

9.4.8 Count 50 non-empty points (125 if performing a 1000 point count) on each sample preparation in at least two (2) randomly selected field of views per slide to yield a total of 400 (alternatively 1000) points.

9.4.9 Count points as follows:

9.4.9.1 Count and record the number of points that are positioned directly above each particle or fiber type.

9.4.9.2 If more that one point is superimposed on any particular particle or fiber, count and record only one (1) point for the particle or fiber in question.

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9.4.9.3 Count and record the number of points that are positioned on the edge of each particle or fiber type.

9.4.9.4 If a point is superimposed on more that one type of particle or fiber, count and record a point for each particle and/or fiber type.

9.4.9.5 If a point is superimposed on an "ambiguous" fiber, do not count or record a point. An "ambiguous" fiber is one that cannot be clearly identified as either asbestos or non-asbestos due to poor dispersion colors, fibers size being below workable magnification or other reasons.

9.4.9.6 A fiber bundle or mat is considered a fiber and counted and recorded as 1 point.

9.4.10 If the sample is suspected to have an asbestos content in excess of 10%, a visual estimate as per NVLAP guidelines (see EMSL PLM SOP) can be used.

9.4.11 Sample ID numbers, macroscopic and microscopic sample observations are recoded on EMSL's PLM worksheets that were generated at the time of login.

9.4.11.1 Macroscopic descriptions include color, texture and homogeneity as well as sample treatment.

9.4.11.2 Microscopic descriptions include identification and percentage of fiber types present (both asbestos and non-asbestos) and the type (if applicable) and percentage of non-fibrous material in the sample.

9.4.11.3 Detailed instruction for completing the worksheets is in EMSL's PLM SOP Section 10.0.

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10.0 Calculations

All calculations are where:

A% - percent asbestos
AP - number of asbestos points counted
NP - number of non-asbestos points counted
R% - final residue percent (use 1.0 if no gravimetric reduction was performed)
RW - residue weight (g)
OW - original weight (g)

10.1 Final Residue Percent
(if optional modification of gravimetric reduction was performed)

$$R\% = \frac{RW}{OW} x100 \qquad R\% = \frac{0.2200}{0.2500} x100 \quad = 88\%$$

10.2 Percent Asbestos

$$A\% = \frac{AP}{(AP + NP)} xR\% \qquad A\% = \frac{10}{(10 + 390)} x88 \qquad A\% = 0.025x88 \ = 2.2$$

11.0 Reporting

11.1 Identification of each asbestos type in the sample.
11.2 Asbestos concentration in % asbestos of each asbestos type in the sample.
11.3 Identification of non-asbestos fibers encountered.
11.4 Percentage of each non-asbestos fiber type identified.
11.5 Percentage and type if available, of non-fibrous material in the sample.
11.6 Sample Appearance (color, fibrosity and homogeneity)
11.7 Sample Description or Location of the sample in the field if supplied by client.
11.8 Client and Lab sample numbers
11.9 Client identification and contact information
11.10 EMSL Order ID
11.11 Client Project information (if supplied)
11.12 Analysis date, report date and date received.
11.13 Signature of Lab Manager
11.14 Report comments
11.15 Lab accreditations

12.0 Method Performance

12.1 MDL
The method detection limit is determined by the level of analysis (the extent of the point count.). The method's predetermined point count stopping points are 400 and 1000 points. This will produce detection limits of 0.25 and 0.10% respectively. When combined with the gravimetric reduction of the sample, the analytical sensitivity may be decreased further.

12.2 DOC's
Demonstrations of Capability are required for each analytical method.

12.3 PT's
Proficiency tests do not exist for this procedure at the current time.

12.4 Accuracy
Precision and Accuracy for the point count portion of this procedures are determined using control charts and summarized, on a per lab basis, in the lab's monthly Quality Assurance Summaries. Suggested Acceptable Errors for PLM Analysis based on 400 Point Counts are listed in Section 16 of this procedure.

12.5 Precision
Precision and Accuracy for the point count portion of this procedures are determined using control charts and summarized, on a per lab basis, in the lab's monthly Quality Assurance Summaries. Suggested Acceptable Errors for PLM Analysis based on 400 Point Counts are listed in Section 16 of this procedure.

13.0 Quality Control

13.1 All QC data must be maintained and available for easy reference and inspection
13.2 Daily contamination checks are performed on a known negative material (min 1/100)
13.3 A process blank of known negative soil or sand will be prepared and analyzed when contamination is suspected.
13.4 7% Inter-analyst analysis
13.5 2% Intra-analyst analysis

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14.0 Data Assessment

14.1 Acceptance criteria for QC measures

These are addressed in EMSL's QA Manual Module A section, A.12.6.4

14.1.1 If a sample falls outside the acceptable limits it needs to be reconciled with participating analysts and/or a third analyst when necessary.

14.1.2 The Pass/Fail criteria for inter-analyst QC and formula for R (variance) is:

Pass -1 ≤ R ≤ 1
Fail R < -1 or R > 1

$$R = \frac{(A-B)}{((A+B)/2)}$$ where A=analysis 1 and B = analysis 2

14.1.3 The Pass/Fail criteria for intra-analyst QC and formula for R (variance) is:

Pass R ≤ 1
Fail R > 1

$$R = \frac{|A-B|}{((A+B)/2)}$$ where A=analysis 1 and B = analysis 2

14.2 Corrective actions

These policies are addressed fully in the EMSL's QA manual section 13.

14.2.1 All corrective actions should look for the root cause of the error.

14.2.2 All out of control or unacceptable data must be brought to the attention of the Laboratory Manager.

14.2.3 The Laboratory manager is responsible for generating a corrective action including an investigation of calibration procedures, a review of analytical technique and investigation of training policies and compliance.

14.2.4 Corrective actions will be reported to the QA Department by means of the Quarterly Management Report or sooner when appropriate.

14.3 Contingencies for handling out-of control or unacceptable data.

Any quality control requirements not met must have an explanation to their Non-conformance.

15.0 Pollution Prevention / Waste Management

15.1 Pollution Prevention

EMSL Analytical makes all efforts to reduce the volume and toxicity of the waste generated by the laboratory. An effort to manage procurement of hazardous materials has been implemented in order to avoid over ordering. Hazardous waste is classified for proper disposal.

15.2 Waste Management

The waste generated during prep and analysis will be disposed of following safety procedures outlined in the chemical hygiene plan (EMSLChemHygiene 200.0).

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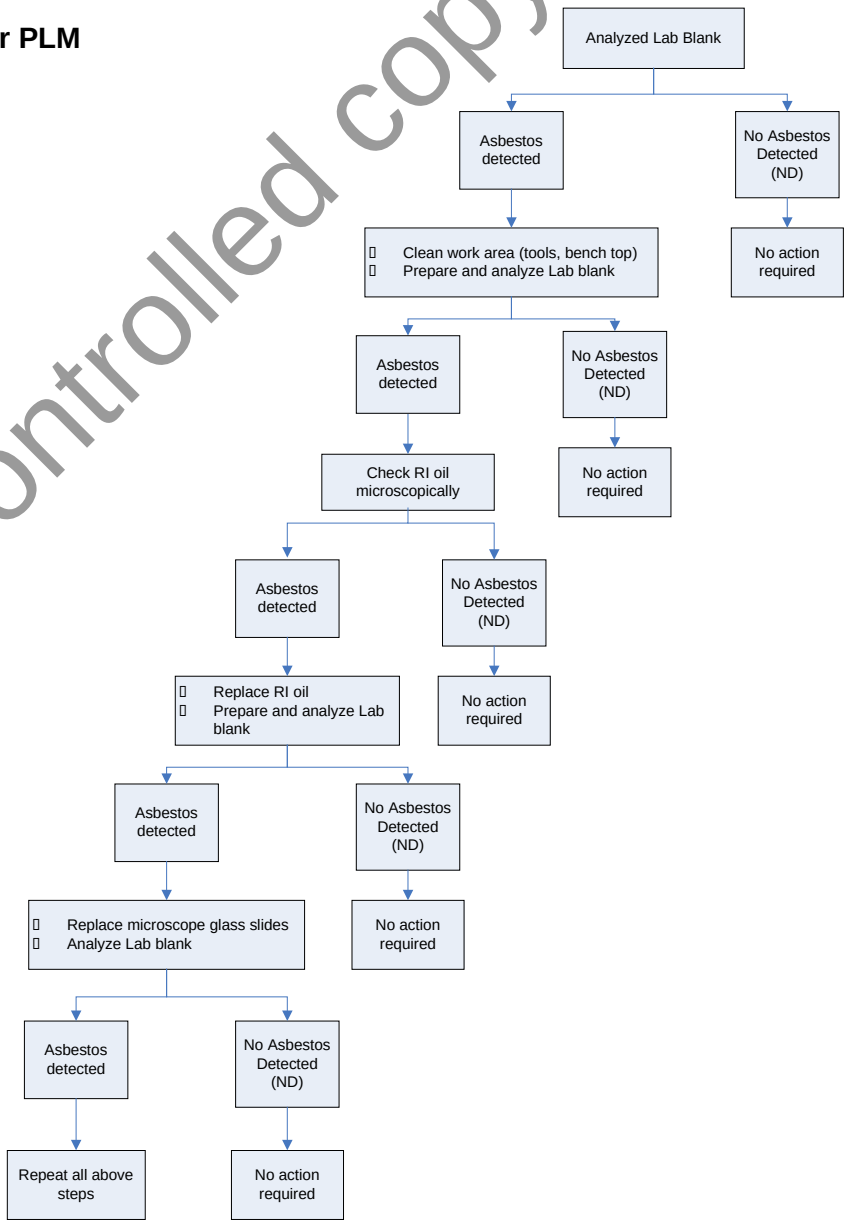
16.0 Tables, Diagrams, Flowcharts, and Validation Data

16.1 Table 2-1 from EPA/600/R-93/116

TABLE 2-1. SUGGESTED ACCEPTABLE ERRORS FOR PLM ANALYSIS
(Based on 400 point counts of a reasonably homogeneous sample or 100 fields of view for visual estimate)

% Area Asbestos	Acceptable Mean Result	% Area Asbestos	Acceptable Mean Result
1	>0-3%	50	40-60%
5	>1-9%	60	50-70%
10	5-15%	70	60-80%
20	10-30%	80	70-90%
30	20-40%	90	80-100%
40	30-50%	100	90-100%

16.2 Contamination Flowchart for PLM



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17.0 References

17.1 EPA 600/R-93/116

17.2 California EPA Air Resources Board - Method 435 " Determination of Asbestos Content of Serpentine Aggregate"

17.3 EMSL QA Manual Revision 9 April 2007

17.4 EMSL Chemical Hygiene Plan Revision 0, September 2004

17.5 Less is Better- Guide to Minimizing Waste in Laboratories prepared by the Task Force on Laboratory Environment, Health and Safety- American Chemical Society 2002.

18.0 Revision History

Revision #	Date	Revision	Initials
1	10/10/2006	Initial Procedure	EC
1.1	11/20/2006	Added much more step by step detail	EC
1.2	05/07/2009	Change milling target grain size from ≤ 250 µm to ≤ 75µm	EC
2.0	05/07/2009	Reformatted to conform to newer SOP format. Changed section 1.3 reflects milling to ≤ 75µm. Section 9.4 (analysis) allows for analysis via EPA 400 or 1000 point count as well as outlining the actual CARB point counting procedure in this section. Stipulated blank are to be process blanks. Updated QC requirements.	KN
3.0	6/15/09	Wording changes to Matrix section, more clearly stated gravimetric reduction as an optional modification to the method, removed vermiculite reference from sample collection section, removed inappropriate air reference from shipment section, changed 250 micron sieve reference to the correct 75 micron in section 9.3.10 And finally, corrected old revision history references.	EC
3.1	7/27/09	Modified Section 13 as follows; Changed QC frequency to 7% inter- and 2% intra-analyst QC to agree with other PLM QC requirements, removed required process blank and replaced with daily (1/100 min) contamination check on know negative sample.	KN
3.2	11/01/12	Section 9.4.4.3 Changed the RI Oil selection from 1.605 to 1.625	LB
3.3	6/26/13	Minor revision - changed the Authorizing Signature date to match the Revision and Effective dates. This change was authorized by Ed Cahill and Ken Najuch.	BS
3.4	9/6/2013	Changed Sample Size for submittal to 4 - 8oz in Section 7.2 Changed requirement to homogenize into a representative subsample for samples over 8oz in Section 9.3.1	KN

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Authorizing Signatures

Ken Najuch		09/06/2013
Author (print)	Author Signature	Date
Ed Cahill		09/06/2013
Reviewer (print)	Reviewer Signature	Date
Ed Cahill		09/06/2013
Corporate Approval (print)	Corporate Approval Signature	Date

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SOP Review and Acknowledgement Form

Instructions: Ensure all personnel in laboratory affected by this procedure read and acknowledge. Once completed, the page shall be retained in an Acknowledgments binder along with personnel training.

Laboratory Manager Acknowledgement

My signature below signifies that I have read and understand the entire contents of this document. My signature represents that I agree to fully comply with, implement, and enforce all requirements, procedures, and protocols specified in these procedures set forth in this document and any supporting reference materials or methodologies.

Laboratory Manager Signature _____ Date _____

Laboratory Staff Acknowledgement

My signature below signifies that I have read and understand the entire contents of this document. My signature represents that I agree to fully comply with, implement, and enforce all requirements, procedures, and protocols specified in these procedures set forth in this document and any supporting reference materials or methodologies.

Print Name	Signature	Date

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APPENDIX B

PHASE II PHOTO LOG

Phase II Photo Log
The Madeira Property
42 Franklin Street, 27 Bayside Court and 30 Bayside Court, Laconia, New Hampshire

1. Location of CA-SB-1/CA-MW-1 in western portion of the Site.

2. Location of CA-SB-2/CA-MW-2 in western portion of the Site.

3. Location of CA-SB-3/CA-MW-3 in southern portion of the Site along water.

4. Location of CA-SB-4/CA-MW-4 in southern portion of the Site along the water.

Phase II Photo Log
The Madeira Property
42 Franklin Street, 27 Bayside Court and 30 Bayside Court, Laconia, New Hampshire

5. Location of CA-SB-5/CA-MW-5 in center of Site.

6. Location of CA-SB-6 near northeastt corner of two-story building.

7. Location of CA-SB-7 south of the retail store.

8. Location of CA-SB-8/CA-MW-8 near eastern corner of Madeira office/warehouse building.

Phase II Photo Log
The Madeira Property
42 Franklin Street, 27 Bayside Court and 30 Bayside Court, Laconia, New Hampshire

9. Location of CA-SB-9/CA-MW-9 near northeast corner of the retail store.

10. Surface soil sample location CA-SS-1.

11. Surface soil sample location CA-SS-2.

12. Surface soil sample location CA-SS-3.

Phase II Photo Log
The Madeira Property
42 Franklin Street, 27 Bayside Court and 30 Bayside Court, Laconia, New Hampshire

13. Surface soil sample location CA-SS-4.

14. Surface soil sample location CA-SS-5.

15. Location of CA-PCB-2 collected from white interior paint in the retail store.

16. Location of CA-PCB-3 collected from white exterior paint on the retail store.

Phase II Photo Log
The Madeira Property
42 Franklin Street, 27 Bayside Court and 30 Bayside Court, Laconia, New Hampshire

17. Location of CA-PCB-4 collected from upper layer of gray floor paint in the retail store. CA-PCB-1 collected from lower layer.

18. Location of CA-PCB-5 collected from door caulk in the retail store.

19. Location of CA-PCB-6/CA-PCB-DUP collected from gray floor paint in the boiler room of the two-story building.

20. Location of CA-PCB-7 collected from white interior paint of the lower building.

Phase II Photo Log
The Madeira Property
42 Franklin Street, 27 Bayside Court and 30 Bayside Court, Laconia, New Hampshire

21. Location of CA-PCB-8 collected from beige inter paint of the lower building.

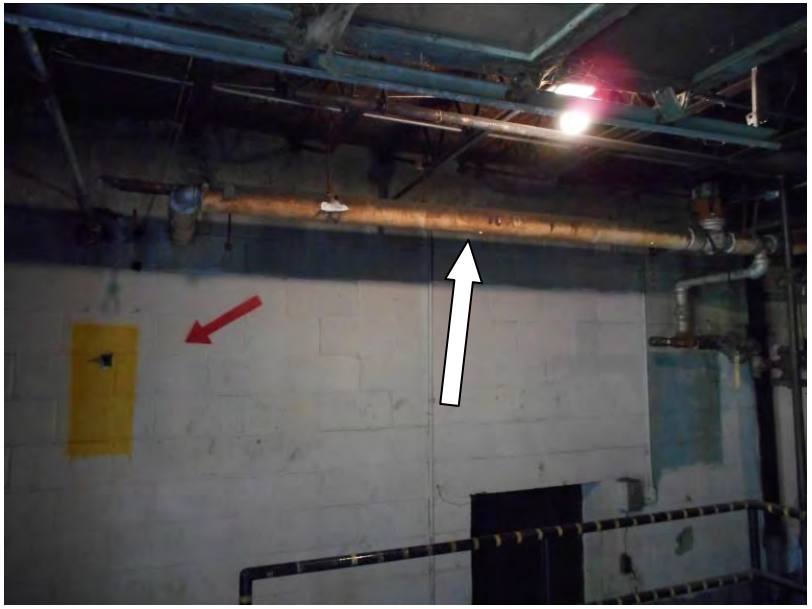
22. Location of CA-PCB-10 collected from window caulk in the lower building.

23. Representative photo of ACM TSI identified at the Site.

24. Representative photo of ACM window glazing identified at the Site.

Phase II Photo Log
The Madeira Property
42 Franklin Street, 27 Bayside Court and 30 Bayside Court, Laconia, New Hampshire

25. Representative photo of ACM ceiling tiles identified at the Site.



26. Representative photo of ACM TSI identified at the Site.

27. Representative photo of ACM gasket at the Site.

28. Representative photo of ACM TSI identified at the Site.

APPENDIX C

FIELD LOGS

Credere Associates, LLC
776 Main Street
Westbrook, Maine 04092
Phone: 207-828-1272
Fax: 207-887-1051

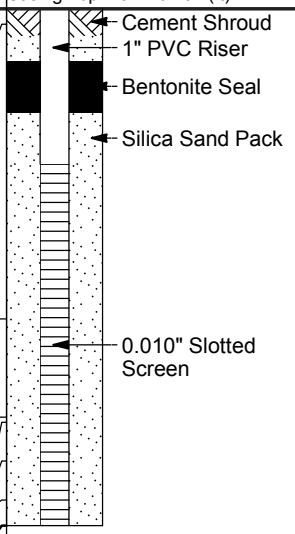
Soil Boring Log

CA-SB-1/CA-MW-1

CLIENT Lakes Region Planning Commission
PROJECT NAME Madeira Property
PROJECT # 14001247
PROJECT LOCATION Laconia, NH
DATE STARTED 5/8/15 **LOGGED BY** J. Newcomb
DEPTH TO WATER 4 **DIAMETER** 1
CONTRACTOR T&K Drilling/Sean McGearry
WELL MATERIALS PVC, 0.010" slotted screen, solid riser
DRILLING METHOD Hollow Stem Auger 2"
ANNULUS MATERIALS #2 Silica Sand, Bentonite Chips
DRILLING EQUIPMENT NA
TOC ELEVATION
NOTES Samples analyzed for VOCs, SVOCs, and RCRA 8 Metals

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY
0	24/14	4 3 7 7	0			0-4" Topsoil/lawn 4-14" Dry, brown fine SAND, trace fine-medium Gravel
	24/4	10 5 6 6	0			0-4" Dry, brown fine SAND, trace fine-medium Gravel
	24/2.5	4 3 8 30	0			0-2.5" Wet, pulverized GRAVEL and SILT
5	24/11	5 3 2 2	0	CA-SB-1 (6-8)		0-10" Wet, gray fine-coarse SAND, little pulverized Gravel
	24/16	2 3 3 13	0			10-11" Wood 0-6" Wet, gray fine-coarse SAND, little pulverized Gravel 6-12" Wood 12-16" Wet, gray fine-coarse SAND and GRAVEL
10						End of Boring @ 10'
15						
20						
25						

WELL DIAGRAM



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Credere Associates, LLC
776 Main Street
Westbrook, Maine 04092
Phone: 207-828-1272
Fax: 207-887-1051

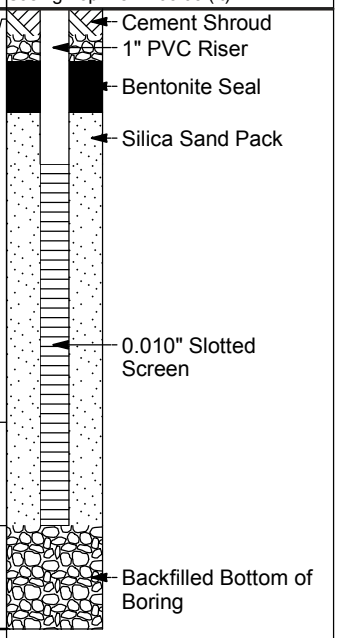
Soil Boring Log

CA-SB-2/CA-MW-2

CLIENT Lakes Region Planning Commission
PROJECT NAME Madeira Property
PROJECT # 14001247
PROJECT LOCATION Laconia, NH
DATE STARTED 5/8/15 **LOGGED BY** J. Newcomb
DEPTH TO WATER 4 **DIAMETER** 1
CONTRACTOR T&K Drilling/Sean McGearry
WELL MATERIALS PVC, 0.010" slotted screen, solid riser
DRILLING METHOD Hollow Stem Auger 2"
ANNULUS MATERIALS #2 Silica Sand, Bentonite Chips
DRILLING EQUIPMENT NA
TOC ELEVATION
NOTES Samples analyzed for VOCs, SVOCs, and RCRA 8 Metals

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY
0	24/14	6 5 4 30	0			0-2" Topsoil/lawn 2-14" Dry, brown fine-medium SAND and GRAVEL, little Asphalt
	24/10	1 2 1 12	0			0-10" Dry, brown fine-medium SAND, little fine Gravel
	24/9	2 8 10 8	0	CA-SB-2 (4-6)		0-9" Wet, gray fine-medium SAND, trace medium Gravel
5	24/7	8 12 13 14	0			0-7" Wet, brown fine-medium SAND, little medium Gravel
						Augered to 10' to set well
10	24/16	15 11 19 18	0			0-16" Wet, gray fine-medium SAND and GRAVEL
						End of Boring @ 12'
15						
20						
25						

WELL DIAGRAM



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Credere Associates, LLC
776 Main Street
Westbrook, Maine 04092
Phone: 207-828-1272
Fax: 207-887-1051

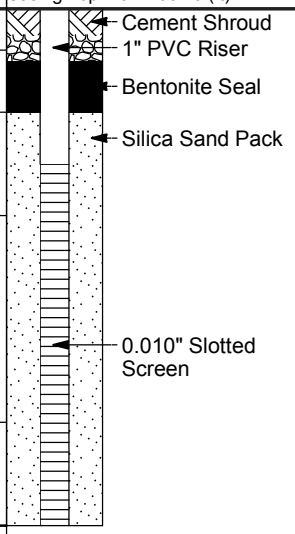
Soil Boring Log

CA-SB-3/CA-MW-3

CLIENT Lakes Region Planning Commission
PROJECT NAME Madeira Property
PROJECT # 14001247
PROJECT LOCATION Laconia, NH
DATE STARTED 5/8/15 **LOGGED BY** J. Newcomb
DEPTH TO WATER 2 **DIAMETER** 1
CONTRACTOR T&K Drilling/Sean McGearry
WELL MATERIALS PVC, 0.010" slotted screen, solid riser
DRILLING METHOD Hollow Stem Auger 2"
ANNULUS MATERIALS #2 Silica Sand, Bentonite Chips
DRILLING EQUIPMENT NA
TOC ELEVATION
NOTES Samples analyzed for VOCs, SVOCs, RCRA 8 Metals, and PCBs

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY
0	24/10	4 4 12 14	0			0-4" Topsoil/lawn
						4-10" Dry, brown fine-coarse SAND and GRAVEL, little Coal
	24/8	10 8 7 5	0	CA-SB-3 (2-4) CA-DUP		0-8" Wet, brown fine SAND and SILT, little Brick, trace Concrete/mortar
	24/6	6 9 6 9	0	CA-SB-3 (4-6)		0-6" Wet, brown medium-coarse SAND and GRAVEL
5	24/12	5 9 11 13	0			0-12" Wet, brown coarse SAND and fine-coarse GRAVEL
						Augered to 10' to set well
10						End of Boring @ 10'
15						
20						
25						

WELL DIAGRAM



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Credere Associates, LLC
776 Main Street
Westbrook, Maine 04092
Phone: 207-828-1272
Fax: 207-887-1051

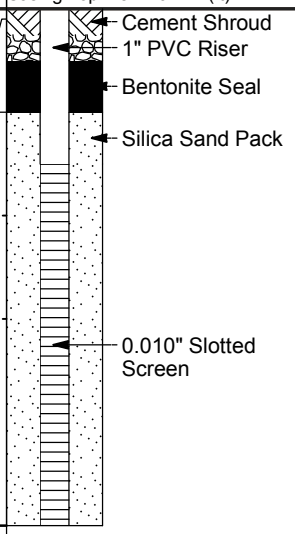
Soil Boring Log

CA-SB-4/CA-MW-4

CLIENT Lakes Region Planning Commission
PROJECT NAME Madeira Property
PROJECT # 14001247
PROJECT LOCATION Laconia, NH
DATE STARTED 5/8/15 **LOGGED BY** J. Newcomb
DEPTH TO WATER 6 **DIAMETER** 1
CONTRACTOR T&K Drilling/Sean McGearry
WELL MATERIALS PVC, 0.010" slotted screen, solid riser
DRILLING METHOD Hollow Stem Auger 2"
ANNULUS MATERIALS #2 Silica Sand, Bentonite Chips
DRILLING EQUIPMENT NA
TOC ELEVATION
NOTES Samples analyzed for VOCs, SVOCs, RCRA 8 Metals, and PCBs

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY
0	24/12	4 4 2 3	0	CA-SB-4 (0-2)		0-1" Lawn/topsoil 1-12" Dry, black fine-medium SAND with COAL ASH and CINDER
	24/11	4 7 4 3	0			0-11" Moist, gray medium-coarse SAND and fine GRAVEL, trace Coal
	24/4	4 3 3 3	0			0-4" Moist, gray coarse SAND and crushed BRICK
5	24/13	10 10 6 5	0			0-13" Wet, dark gray medium-coarse SAND and fine GRAVEL, some Brick, trace Coal
	24/4	5 6 5 6	0	CA-SB-8 (8-10)		0-4" Wet, gray medium-coarse SAND and GRAVEL
10						End of Boring @ 10'
15						
20						
25						

WELL DIAGRAM



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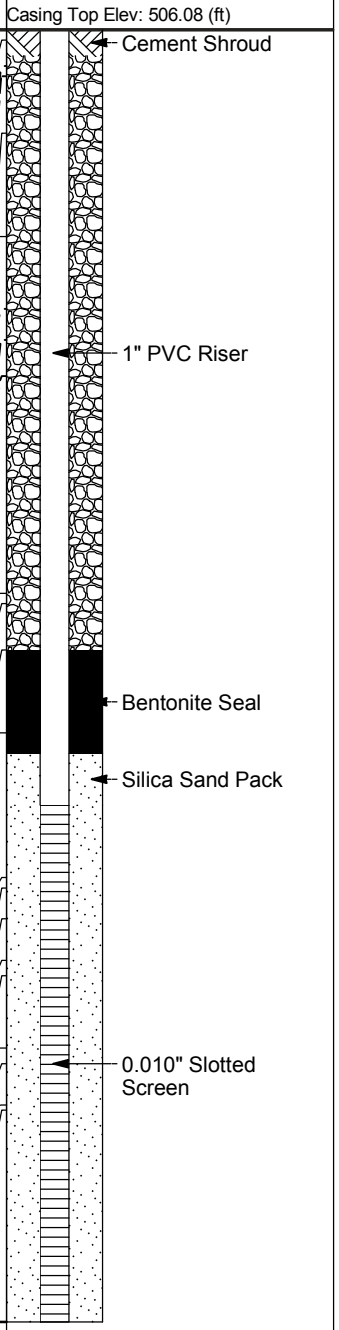
Credere Associates, LLC
776 Main Street
Westbrook, Maine 04092
Phone: 207-828-1272
Fax: 207-887-1051

Soil Boring Log

CA-SB-5/CA-MW-5

CLIENT Lakes Region Planning Commission
PROJECT NAME Madeira Property
PROJECT # 14001247
PROJECT LOCATION Laconia, NH
DATE STARTED 5/7/15 **LOGGED BY** M. Kennedy
DEPTH TO WATER 16 **DIAMETER** 1
CONTRACTOR T&K Drilling/Sean McGearry
WELL MATERIALS PVC, 0.010" slotted screen, solid riser
DRILLING METHOD Hollow Stem Auger 2"
ANNULUS MATERIALS #2 Silica Sand, Bentonite Chips
DRILLING EQUIPMENT NA
TOC ELEVATION
NOTES Samples analyzed for VOCs, SVOCs, TPH, RCRA 8 Metals, and PCBs

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	LITHOLOGY
0	24/12	6 11 15 7	0		0-1" Asphalt 1-4" Dry, reddish brown fine-medium SAND, some fine-coarse Gravel 4-5" Dry, light brown fine SAND
	24/0	8 4 6 7	0		5-7" Dry, dark brown fine-coarse SAND and fine GRAVEL 7-12" Dry, light brown fine-coarse SAND and GRAVEL No recovery
	24/16	4 4 4 11	0	CA-SB-5 (4-6)	0-10" Moist, light brown fine-coarse SAND, trace fine Gravel 10-11" Moist, black fine SAND, trace GRAVEL
5	24/18	13 15 15 19	0		11-16" Moist, yellowish orange medium-coarse SAND, some fine Gravel 0-6" Moist, light brown fine-coarse SAND, trace fine Gravel 6-18" Moist, yellowish orange medium-coarse SAND, some fine-coarse Gravel
	24/13	9 11 12 18	0		0-13" Moist, yellowish orange medium-coarse SAND and fine-coarse GRAVEL
10	24/11	12 19 15 22	0		0-5" Moist, light brown medium-coarse SAND and fine GRAVEL 5-6" Moist, coarse GRAVEL 6-11" Moist, yellowish orange medium-coarse SAND and fine-coarse GRAVEL
	24/7	22 32 53 41	0		0-6" Moist, coarse GRAVEL 6-7" Moist, light brown fine-coarse SAND and fine-coarse GRAVEL
	24/14	21 33 33 30	0		0-14" Moist, light brown fine-coarse SAND and fine-coarse GRAVEL
15	14/13	46 51 50/2	0		0-4" Moist, light brown fine-coarse SAND and fine-coarse GRAVEL 4-7" Moist, coarse GRAVEL 7-13" Moist, light gray SILT with red reduction-oxidation bands Augered to 18'
	20/14.5	33 41 40 50	0		0-3" Moist, coarse GRAVEL 3-14.5" Moist, light gray SILT, trace fine Sand
20	11/10	51 75/5	0		No recovery 0-9" Dry, dark gray SILT 9-10" Moist, coarse GRAVEL Augered to 25' to set well
25					End of Boring @ 25'



CREDERE ENV 2015 - GINT STD US LAB.GDT - 7/23/15 13:02 - P:\14001247 LRPC BROWNFIELDS 2014\WORK\MADEIRA PROPERTY\PHASE II\MADEIRA SOIL BORING LOGS.GPJ

Credere Associates, LLC
776 Main Street
Westbrook, Maine 04092
Phone: 207-828-1272
Fax: 207-887-1051

Soil Boring Log

CA-SB-6

CLIENT Lakes Region Planning Commission
PROJECT NAME Madeira Property
PROJECT # 14001247
PROJECT LOCATION Laconia, NH
DATE STARTED 5/8/15 **LOGGED BY** J. Newcomb
DEPTH TO WATER 7 **DIAMETER** NA
CONTRACTOR T&K Drilling/Sean McGearry
WELL MATERIALS NA
DRILLING METHOD Hollow Stem Auger 2"
ANNULUS MATERIALS NA, NA
DRILLING EQUIPMENT NA
TOC ELEVATION
NOTES Samples analyzed for VOCs, SVOCs, and TPH

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0	24/10	6 11	0			0-5" Lawn/topsoil	
		6 5				5-10" Moist, gray fine-medium SAND and BRICK	
	24/12	6 12	0			0-12" Moist, brown, fine-medium SAND and GRAVEL	
		42 42					
	24/9	36 45	1.6			0-9" Moist, brown, fine-medium SAND and GRAVEL, some Rock fragments	
5		27 26					
	24/19	46 20	43.6	CA-SB-6 (6-8)		0-19" Moist to wet @ 7 ft, brown, fine-medium SAND and GRAVEL, some Rock fragments	
		26 31					
	11/8		1.3			0-8" Wet, gray fine-course SAND and GRAVEL, rusty weathering on sand	
		24 53/5				End of Boring @ 8.9' (refusal)	
10							
15							
20							
25							

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Credere Associates, LLC
776 Main Street
Westbrook, Maine 04092
Phone: 207-828-1272
Fax: 207-887-1051

Soil Boring Log

CA-SB-7

CLIENT Lakes Region Planning Commission
PROJECT NAME Madeira Property
PROJECT # 14001247
PROJECT LOCATION Laconia, NH
DATE STARTED 5/8/15 **LOGGED BY** J. Newcomb
DEPTH TO WATER 5 **DIAMETER** NA
CONTRACTOR T&K Drilling/Sean McGearry
WELL MATERIALS NA
DRILLING METHOD Hollow Stem Auger 2"
ANNULUS MATERIALS NA, NA
DRILLING EQUIPMENT NA
TOC ELEVATION
NOTES Samples analyzed for VOCs, SVOCs, and TPH

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0			0			Asphalt and base material	
						Dry, brown fine-coarse SAND and GRAVEL	
	24/4	4 3 4 4	0			0-4" Dry, brown fine-coarse SAND and fine GRAVEL	
	24/14	1 1 2 2	1.5	CA-SB-7 (4-6)		0-14" Moist to wet @ 5', gray-black fine-coarse SAND, trace Coal ash and Cinders	
5						Augered to 7.5' past refusal	
	24/13	18 16 21 45	1.0			0-13" Moist, orange-brown medium-coarse SAND and GRAVEL	
	18/13	41 94 101/6	0			0-13" Moist, brown fine-coarse SAND and GRAVEL	
10						End of Boring @ 11' (refusal)	
15							
20							
25							

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Credere Associates, LLC
776 Main Street
Westbrook, Maine 04092
Phone: 207-828-1272
Fax: 207-887-1051

Soil Boring Log

CA-SB-8/CA-MW-8

CLIENT Lakes Region Planning Commission
PROJECT NAME Madeira Property
PROJECT # 14001247
PROJECT LOCATION Laconia, NH
DATE STARTED 5/7/15 **LOGGED BY** M. Kennedy
DEPTH TO WATER 19.5 **DIAMETER** 1
CONTRACTOR T&K Drilling/Sean McGearry
WELL MATERIALS PVC, 0.010" slotted screen, solid riser
DRILLING METHOD Hollow Stem Auger 2"
ANNULUS MATERIALS #2 Silica Sand, Bentonite Chips
DRILLING EQUIPMENT NA
TOC ELEVATION
NOTES Samples analyzed for VOCs, SVOCs, and TPH

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	LITHOLOGY
0					Asphalt
	18/8	6 3 1	0		0-8" Dry, light brown medium-coarse SAND and fine-coarse GRAVEL
	24/12	3 20 17	0		0-12" Dry, light brown medium-coarse SAND and fine-coarse GRAVEL
	24/16	11 4 5	0		0-16" Dry, light brown fine-coarse SAND, trace fine Gravel
5		7 9			
	24/20	9 9	0	CA-SB-8 (6-8)	0-10" Dry, yellowish orange medium-coarse SAND and fine-coarse GRAVEL
		7			10-12" Dry, olive gray SILT
		7			12-16" Dry, yellowish orange medium-coarse SAND and fine-coarse GRAVEL
	24/11	3 8	0		16-18" Dry, black medium-coarse SAND and fine-coarse GRAVEL, trace Coal ash
		8 10			18-20" Dry, yellowish orange medium-coarse SAND and fine-coarse GRAVEL
10	24/13	13 11	0		0-11" Dry, yellowish orange medium-coarse SAND, some fine-coarse Gravel
		14			
	24/12	14 12	0		Dry, yellowish orange/light brown fine-coarse SAND and fine-coarse GRAVEL
		13			0-6" Dry, light brown fine-coarse SAND and GRAVEL
		18			6-8" Dry, pulverized GRAVEL
		29			8-12" Moist, light brown fine-coarse SAND and GRAVEL
					Augered to 15'
15	24/14.5	18	0		0-5.5" Moist, light brown fine-coarse SAND and GRAVEL
		27			5.5-7" Moist, pulverized GRAVEL
		20			7-14.5" Moist, light brown fine-coarse SAND and GRAVEL
		32			
	5/3.5	50/3.5	2.0		0-3.5" Moist, light brown fine SAND, trace fine-coarse Gravel
					Augered to 18'
	24/7	43	0		0-5" Moist, olive gray to light brown medium-coarse SAND and fine-coarse GRAVEL
		32 11			
		40			5-7" Wet, olive gray to light brown medium-coarse SAND and fine-coarse GRAVEL
20					Augered to 24' to set well
					End of Boring @ 24'
25					

WELL DIAGRAM

Casing Top Elev: 510.02 (ft)

- Cement Shroud
- 1" PVC Riser
- Bentonite Seal
- Silica Sand Pack
- 0.010" Slotted Screen

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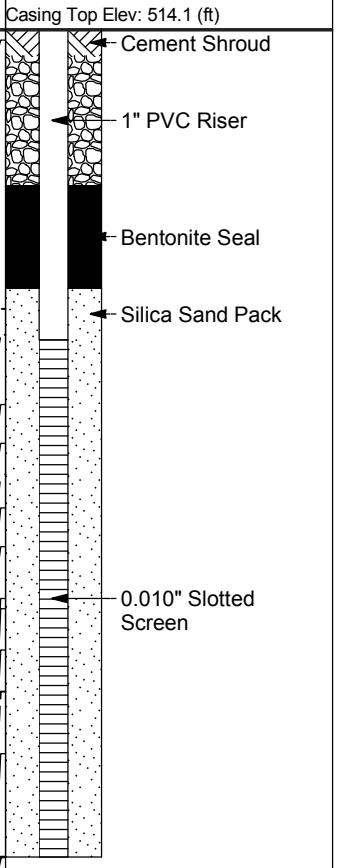
Credere Associates, LLC
776 Main Street
Westbrook, Maine 04092
Phone: 207-828-1272
Fax: 207-887-1051

Soil Boring Log

CA-SB-9/CA-MW-9

CLIENT Lakes Region Planning Commission
PROJECT NAME Madeira Property
PROJECT # 14001247
PROJECT LOCATION Laconia, NH
DATE STARTED 5/7/15 **LOGGED BY** M. Kennedy
DEPTH TO WATER 12 **DIAMETER** 1
CONTRACTOR T&K Drilling/Sean McGearry
WELL MATERIALS PVC, 0.010" slotted screen, solid riser
DRILLING METHOD Hollow Stem Auger 2"
ANNULUS MATERIALS #2 Silica Sand, Bentonite Chips
DRILLING EQUIPMENT NA
TOC ELEVATION
NOTES Samples analyzed for VOCs, SVOCs, TPH, RCRA 8 Metals, and PCBs

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	LITHOLOGY
0	24/18	6 12	0		Asphalt 0-6" Dry, red-brown fine-coarse SAND and GRAVEL
		6 3			6-18" Dry, light brown fine-coarse SAND and GRAVEL
	24/6.5	3 2 2 1	0		0-6.5" Dry, light brown fine-coarse SAND and SILT, trace fine-coarse Gravel
	24/16	2 1	0		0-11" Moist, light brown fine-coarse SAND, trace fine-coarse Gravel
5		6 13			11-15" Moist, yellowish orange medium-coarse SAND and fine-coarse GRAVEL
	24/13	14 9	0		15-16" Moist, black fine-coarse SAND and SILT, some fine Gravel
		6 6			0-6" Moist, light brown fine-coarse SAND and GRAVEL 6-7.5" Moist, black fine-coarse SAND and GRAVEL, little Coal
	15/8	30 49 30/3	0		7.5-13" Moist, dark brown SILT, trace fine Sand, trace Coal 0-4" Moist, light brown SILT and fine-coarse GRAVEL, some fine-coarse Sand 4-8" Moist, coarse GRAVEL
10	14/8	14 34 50/2	0		Augered to 10' 0-4" Moist, light gray SILT, some fine-coarse Sand, some fine-coarse Gravel
	24/17	19 31 35 34	0	CA-SB-9 (12-14/12.5)	4-7" Moist, light brown medium-coarse SAND and fine GRAVEL, trace coarse gravel, trace brick 7-8" Moist, coarse GRAVEL Augered to 12' 0-7" Wet, light brown SILT and fine-coarse SAND, some fine-coarse Gravel
15					7-17" Wet, light gray SILT, some fine Sand, some fine-coarse Gravel Augered to 16' to set well End of Boring @ 16'
20					
25					



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LOW FLOW SAMPLING LOG
CREDERE ASSOCIATES. LLC

Community Economy Environment
Credere Associates LLC

PROJECT NAME: MADEIRA PROPERTIES DATE: 5/27/2015

PROJECT NUMBER: 14001247 LOCATION ACTIVITY START: 1015

SAMPLE LOCATION ID: CA-MW-1 END: 1130

WELL DATA:

WELL DEPTH (ft): 9,10 [x] MEASURED [ ] HISTORICAL

WATER DEPTH (ft): 4,34 [ ] MEASURED [ ] HISTORICAL

[x] TOP OF WELL [ ] TOP OF CASING [ ] FROM GRADE [ ] _____

WATER LEVEL EQUIPMENT USED:
[x] ELECT. COND. PROBE
[ ] FLOAT ACTIVATED PROBE
[ ] PRESSURE TRANSDUCER
[ ] _____
[ ] _____

DEPTH OF PUMP INTAKE (ft): _____ Stick-up (in): _____

WELL MATERIAL:	WELL LOCKED:	PROTECTIVE CASING SECURE:	CONCRETE COLLAR INTACT:
[X] PVC	[X] YES	[X] YES	[X] YES
[ ] SS	[ ] NO	[ ] NO	[ ] NO
[ ] _____			

AMBIENT AIR VOC: N/A PPM

WELL MOUTH VOC: N/A PPM

EQUIPMENT DATA:

PURGING	SAMPLING	
[ ]	x	PERISTALTIC PUMP
[ ]	[ ]	SUBMERSIBLE
[ ]	[ ]	BLADDER PUMP
[ ]	[ ]	HAND PUMP
[ ]	[ ]	DEDICATED HDPE
[ ]	[ ]	NEW HDPE
[ ]	x	DEDICATED LDPE
[ ]	[ ]	NEW LDPE
	[ ]	FILTER
[ ]	[ ]	_____

Equipment
Solinst interface probe, Lamotte 2020 turbidity meter, YSI multi-parameter meter with display, geopump peristaltic pump mL flow through cell

DECONTAMINATION FLUIDS USED:
[ ] DISTILLED WATER
x DEIONIZED WATER
[ ] POTABLE WATER
[ ] TSP SOLUTION
x ALCONOX SOLUTION
[ ] NONE
[ ] _____
[ ] _____

FIELD ANALYSIS DATA:

TIME	TEMP (°C)	pH	SP COND. (mS/cm)	ORP (mV)	D.O. (mg/l)	TURBID. (ntu)	Flow Rate (mL/min)	DTW (ft)	Comments/Flow Rate (indicate stable flow rate)
1030	13.40	5.80	4.177	23.5	1.23	27.6	116	?	water level malfunctioning
1035	13.53	5.84	4.063	19.7	0.62	22.6	116	?	
1040	13.63	5.86	4.015	15.5	0.50	17.6	116	4.34	Stable flow rate
1045	14.03	5.86	3.969	11.4	0.43	17.0	116	4.34	
1050	13.61	5.86	3.914	9.1	0.39 ✓	14.0	116	4.35	
1055	13.65	5.88	3.894	6.1	0.33	14.7	116	4.35	
1100	13.70	5.89	3.840	5.6	0.37	10.30	116	4.35	
1105	13.86 ✓	5.89 ✓	3.780 ✓	4.6 ✓	0.34	9.79 ✓	116 ✓	4.35	Stability achieved
	3%	±0.1	3%	±10	10%, <0.5	10%, <5	100-400 mL/min		

SAMPLE DATA:

SAMPLE BOTTLE ID TIME	LOCATION	PRESERVATION METHOD	SAMPLE CONTAINER #	TYPE	LABORATORY ANALYSIS
1115	CA-MW-1	HCL	2	40mL VOA	VOC
1125		HNO3	1	500mL POLY	METALS
1120		NONE	1	1L AMBER	SVOC

PURGE DATA

[ ] 0.04 GAL/FT (1" DIAM.)
[X] 0.16 GAL/FT (2" DIAM.)
[ ] 0.65 GAL/FT (4" DIAM.)
[ ] 1.47 GAL/FT (6" DIAM.)

x length of water column = 5.76
Total Well Volume: 0.92 g
Total Purge Volume: 2.0 g
# of well volumes:

Stable flow not achieved, sampled via no-purge: [ ]

Martha Kenz
SAMPLER

\\me01seusse\Overhead\Environmental Information\Logs\[Well Sampling Log - Low Flow 2015.xls]A

LOW FLOW SAMPLING LOG
CREDERE ASSOCIATES, LLC

Community Economy Environment
Credere Associates LLC

PROJECT NAME: MADEIRA PROPERTIES DATE: 5/27/2015

PROJECT NUMBER: 14001247

LOCATION ACTIVITY
START: 1145
END:

SAMPLE LOCATION ID: CA-MW-2

WELL DATA:

WELL DEPTH (ft): 9.05 [x] MEASURED [ ] HISTORICAL [x] TOP OF WELL [ ] TOP OF CASING [ ] FROM GRADE

WATER DEPTH (ft): 5.69 [ ] MEASURED [ ] HISTORICAL [ ] _____

WATER LEVEL EQUIPMENT USED:
[x] ELECT. COND. PROBE
[ ] FLOAT ACTIVATED PROBE
[ ] PRESSURE TRANSDUCER
[ ] _____
[ ] _____

DEPTH OF PUMP INTAKE (ft): _____ Stick-up (in): _____

WELL MATERIAL:	WELL LOCKED:	PROTECTIVE CASING SECURE:	CONCRETE COLLAR INTACT:
[X] PVC	[X] YES	[X] YES	[X] YES
[ ] SS	[ ] NO	[ ] NO	[ ] NO
[ ] _____			

AMBIENT AIR VOC: N/A PPM

WELL MOUTH VOC: N/A PPM

EQUIPMENT DATA:

PURGING	SAMPLING		Equipment
[ ]	x	PERISTALTIC PUMP	Solinst interface probe, Lamotte 2020
[ ]	[ ]	SUBMERSIBLE	turbidity meter, YSI multi-parameter
[ ]	[ ]	BLADDER PUMP	meter with display, geopump peristaltic pump
[ ]	[ ]	HAND PUMP	mL flow through cell
[ ]	[ ]	DEDICATED HDPE	
[ ]	[ ]	NEW HDPE	
[ ]	x	DEDICATED LDPE	
[ ]	[ ]	NEW LDPE	
	[ ]	FILTER	
[ ]	[ ]	_____	

DECONTAMINATION FLUIDS USED:
[ ] DISTILLED WATER
x DEIONIZED WATER
[ ] POTABLE WATER
[ ] TSP SOLUTION
x ALCONOX SOLUTION
[ ] NONE
[ ] _____
[ ] _____

FIELD ANALYSIS DATA:

TIME	TEMP (°C)	pH	SP. COND. (mS/cm)	ORP (mV)	D.O. (mg/l)	TURBID. (ntu)	Flow Rate (mL/min)	DTW (ft)	Comments/Flow Rate (indicate stable flow rate)
1155	16.42	6.19	0.530	-6.6	1.18	276	136	5.75	
1200	16.14	6.18	0.458	-8.5	0.64	226	136	5.75	Stable flow rate
1205	16.08	6.18	0.450	-9.6	0.60	108.2	130	5.75	
1210	16.29	6.18	0.454	-10.1	0.50	41.8	130	5.75	
1215	16.41	6.19	0.459	-11.0	0.51	36.4	128	5.75	
1220	16.12	6.19	0.472	-14.3	0.43	25.1	138	5.75	
1225	16.13	6.20	0.475	-15.1	0.44	19.1	140	5.75	
1230	16.19	6.20	0.478	-14.3	0.42 ✓	12.3	140	5.75	
1235	16.07 ✓	6.20 ✓	0.477 ✓	-12.4 ✓	0.41	9.79 ✓	140 ✓	5.75	Stability achieved
	3%	±0.1	3%	±10	10%, <0.5	10%, <5	100-400 mL/min		

SAMPLE DATA:

SAMPLE BOTTLE ID TIME	LOCATION	PRESERVATION METHOD	SAMPLE CONTAINER #	TYPE	LABORATORY ANALYSIS
1245	CA-MW-2	HCL	2	40mL VOA	VOC
1255		HNO3	1	500mL POLY	METALS
1250		NONE	1	1L AMBER	SVOC

PURGE DATA

[ ] 0.04 GAL/FT (1" DIAM.)
[X] 0.16 GAL/FT (2" DIAM.)
[ ] 0.65 GAL/FT (4" DIAM.)
[ ] 1.47 GAL/FT (6" DIAM.)

x length of water column = 3.36
Total Well Volume: 0.54 g
Total Purge Volume: 2.0 g
# of well volumes: ~4 (3.7)

Stable flow not achieved, sampled via no-purge: [ ]

Matthew Kennedy
SAMPLER

LOW FLOW SAMPLING LOG
CREDERE ASSOCIATES. LLC

Credere Associates LLC

PROJECT NAME: MADEIRA PROPERTIES DATE: 5/27/2015

PROJECT NUMBER: 14001247

SAMPLE LOCATION ID: CA-MW-3

LOCATION ACTIVITY
START: 10 30
END: 11 45

WELL DATA:

WELL DEPTH (ft): 9.40 [x] MEASURED [ ] HISTORICAL [x] TOP OF WELL [ ] TOP OF CASING

WATER DEPTH (ft): 3.55 [ ] MEASURED [ ] HISTORICAL [ ] FROM GRADE [ ] _____

DEPTH OF PUMP INTAKE (ft): 2.5 6.9 Stick-up (in): _____

WATER LEVEL EQUIPMENT USED:
[x] ELECT. COND. PROBE
[ ] FLOAT ACTIVATED PROBE
[ ] PRESSURE TRANSDUCER
[ ] _____
[ ] _____

WELL MATERIAL:	WELL LOCKED:	PROTECTIVE CASING SECURE:	CONCRETE COLLAR INTACT:
[ ] PVC	[ ] YES	[ ] YES	[ ] YES
[ ] SS	[ ] NO	[ ] NO	[ ] NO
[ ] _____			

AMBIENT AIR VOC: N/A PPM

WELL MOUTH VOC: N/A PPM

EQUIPMENT DATA:

PURGING	SAMPLING	
[ ]	x	PERISTALTIC PUMP
[ ]	[ ]	SUBMERSIBLE
[ ]	[ ]	BLADDER PUMP
[ ]	[ ]	HAND PUMP
[ ]	[ ]	DEDICATED HDPE
[ ]	[ ]	NEW HDPE
[ ]	x	DEDICATED LDPE
[ ]	[ ]	NEW LDPE
	[ ]	FILTER
[ ]	[ ]	_____

Equipment
Solinst interface probe, Lamotte 2020 turbidity meter, YSI 556 multi-parameter meter with display, geopump peristaltic pump mL flow through cell

DECONTAMINATION FLUIDS USED:
[ ] DISTILLED WATER
x DEIONIZED WATER
[ ] POTABLE WATER
[ ] TSP SOLUTION
x ALCONOX SOLUTION
[ ] NONE
[ ] _____
[ ] _____

FIELD ANALYSIS DATA:

TIME	TEMP (°C)	pH	SP. COND. (mS/cm)	ORP (mV)	D.O. (mg/l)	TURBID. (ntu)	Flow Rate (mL/min)	DTW (ft)	Comments/Flow Rate (indicate stable flow rate)
1036	13.27	6.72	.352	38.9	.76	260	180	3.60	
1040	14.96	6.64	.348	44.9	.22	254	180	3.60	
1045	14.87	6.64	.346	49.6	.19	110	180	3.60	
10.50	15.27	6.63	.344	49	.20	110	180	3.60	
1055	15.41	6.63	.341	53.1	.19	105	180	3.60	
11	15.77	6.62	.337	56.9	.29	101	180	3.60	
1105	15.42	6.61	.337	58.6	.30	39.5	180	3.60	
1110	15.35	6.61	.335	60.8	.25	37.0	180	3.60	
1115	15.42	6.60	.333	61.1	.20	35	180	3.60	
	3%	±0.1	3%	±10	10%, <0.5	10%, <5	100-400 mL/min		

SAMPLE DATA:

TIME	SAMPLE BOTTLE ID LOCATION	PRESERVATION METHOD	SAMPLE CONTAINER #	SAMPLE CONTAINER TYPE	LABORATORY ANALYSIS
1180	CA-MW-3	HCL	2	40mL VOA	VOC
		HNO3	1	500mL POLY	METALS
		NONE	1	1L AMBER	SVOC
1130	CA-MW-DUP	ALL	4	ALL	ALL

PURGE DATA

[ ] 0.04 GAL/FT (1" DIAM.)
[x] 0.16 GAL/FT (2" DIAM.)
[ ] 0.65 GAL/FT (4" DIAM.)
[ ] 1.47 GAL/FT (6" DIAM.)

x length of water column =
Total Well Volume: _____ g
Total Purge Volume: _____ g
# of well volumes:

Stable flow not achieved, sampled via no-purge: [ ]

SAMPLER

\\me01seusse\Overhead\Environmental Information\Logs\[Well Sampling Log - Low Flow 2015.xls]A

LOW FLOW SAMPLING LOG
CREDERE ASSOCIATES, LLC

PROJECT NAME: MADEIRA PROPERTIES DATE: 5/27/2015

PROJECT NUMBER: 14001247 LOCATION ACTIVITY START: 1150

SAMPLE LOCATION ID: CA-MW-4 END: 1245

WELL DATA:

WELL DEPTH (ft): [x] MEASURED [ ] HISTORICAL [ ] MEASURED [ ] HISTORICAL

WATER DEPTH (ft): 4 AT [x] TOP OF WELL [ ] TOP OF CASING [ ] FROM GRADE [ ]

WATER LEVEL EQUIPMENT USED: [x] ELECT. COND. PROBE [ ] FLOAT ACTIVATED PROBE [ ] PRESSURE TRANSDUCER [ ] [ ]

DEPTH OF PUMP INTAKE (ft): Stick-up (in):

WELL MATERIAL:	WELL LOCKED:	PROTECTIVE CASING SECURE:	CONCRETE COLLAR INTACT:
[x] PVC	[x] YES	[x] YES	[x] YES
[ ] SS	[ ] NO	[ ] NO	[ ] NO
[ ]			

AMBIENT AIR VOC: N/A PPM

WELL MOUTH VOC: N/A PPM

EQUIPMENT DATA:

PURGING	SAMPLING	
[ ]	x	PERISTALTIC PUMP
[ ]	[ ]	SUBMERSIBLE
[ ]	[ ]	BLADDER PUMP
[ ]	[ ]	HAND PUMP
[ ]	[ ]	DEDICATED HDPE
[ ]	[ ]	NEW HDPE
[ ]	x	DEDICATED LDPE
[ ]	[ ]	NEW LDPE
	[ ]	FILTER
[ ]	[ ]	

Equipment: Solinst interface probe, Lamotte 2020 turbidity meter, YSI 556 multi-parameter meter with display, geopump peristaltic pump mL flow through cell

DECONTAMINATION FLUIDS USED:

[ ]	DISTILLED WATER
x	DEIONIZED WATER
[ ]	POTABLE WATER
[ ]	TSP SOLUTION
x	ALCONOX SOLUTION
[ ]	NONE
[ ]	
[ ]	

FIELD ANALYSIS DATA:

TIME	TEMP (°C)	pH	SP. COND. (mS/cm)	ORP (mV)	D.O. (mg/l)	TURBID. (ntu)	Flow Rate (mL/min)	DTW (ft)	Comments/Flow Rate (indicate stable flow rate)
1155	15.43	6.50	.706	1.7	2.58	———	180	4.1	DARK BLACK
1200	15.17	6.47	.704	-6.5	.21	146	180	4.1	
1205	14.93	6.49	.782	-8.9	.19	101	180	4.1	
1210	14.14	6.43	.783	-12.5	.15	45		4.1	
1215	14.65	6.49	.782	-9.6	.14	93.7		4.1	
1220	14.68	6.49	.780	-9.8	.11	42.1		4.1	
1225	14.78	6.54	.780	-9.8	.11	40.1		4.1	
1230	14.73	6.49	.790	-4.5	.13	39.2		4.1	
	3%	±0.1	3%	±10	10%, <0.5	10%, <5	100-400 mL/min		

SAMPLE DATA:

SAMPLE BOTTLE ID TIME	LOCATION	PRESERVATION METHOD	#	SAMPLE CONTAINER TYPE	LABORATORY ANALYSIS
1235	CA-MW-4	HCL	2	40mL VOA	VOC
		HNO3	1	500mL POLY	METALS
		NONE	1	1L AMBER	SVOC
1235	CA-MS/MSD	HNO3	1	500mL POLY	METALS

PURGE DATA

[ ] 0.04 GAL/FT (1" DIAM.)
[ ] 0.16 GAL/FT (2" DIAM.)
[ ] 0.65 GAL/FT (4" DIAM.)
[ ] 1.47 GAL/FT (6" DIAM.)

x length of water column =
Total Well Volume: _____ g
Total Purge Volume: _____ g
# of well volumes:

Stable flow not achieved, sampled via no-purge: [ ]

SAMPLER

LOW FLOW SAMPLING LOG
CREDERE ASSOCIATES. LLC

Credere Associates LLC

PROJECT NAME: MADEIRA PROPERTIES DATE: 5/27/2015

PROJECT NUMBER: 14001247 LOCATION ACTIVITY START: 830

SAMPLE LOCATION ID: CA-MW-5 END: 1000

WELL DATA:

WELL DEPTH (ft): 24.25 [x] MEASURED [ ] HISTORICAL [x] TOP OF WELL [ ] TOP OF CASING [ ] FROM GRADE [ ]

WATER DEPTH (ft): 15.80 [ ] MEASURED [ ] HISTORICAL

WATER LEVEL EQUIPMENT USED:
[x] ELECT. COND. PROBE
[ ] FLOAT ACTIVATED PROBE
[ ] PRESSURE TRANSDUCER
[ ]
[ ]

DEPTH OF PUMP INTAKE (ft): Stick-up (in):

WELL MATERIAL:	WELL LOCKED:	PROTECTIVE CASING SECURE:	CONCRETE COLLAR INTACT:
[x] PVC	[x] YES	[x] YES	[x] YES
[ ] SS	[ ] NO	[ ] NO	[ ] NO
[ ]			

AMBIENT AIR VOC: N/A PPM

WELL MOUTH VOC: N/A PPM

EQUIPMENT DATA:

PURGING	SAMPLING	
[ ]	x	PERISTALTIC PUMP
[ ]	[ ]	SUBMERSIBLE
[ ]	[ ]	BLADDER PUMP
[ ]	[ ]	HAND PUMP
[ ]	[ ]	DEDICATED HDPE
[ ]	[ ]	NEW HDPE
[ ]	x	DEDICATED LDPE
[ ]	[ ]	NEW LDPE
	[ ]	FILTER
[ ]	[ ]	

Equipment
Solinst interface probe, Lamotte 2020 turbidity meter, YSI 556 multi-parameter meter with display, geopump peristaltic pump mL flow through cell

DECONTAMINATION FLUIDS USED:
[ ] DISTILLED WATER
x DEIONIZED WATER
[ ] POTABLE WATER
[ ] TSP SOLUTION
x ALCONOX SOLUTION
[ ] NONE
[ ]
[ ]

FIELD ANALYSIS DATA:

TIME	TEMP (°C)	pH	SP. COND. (mS/cm)	ORP (mV)	D.O. (mg/l)	TURBID. (ntu)	Flow Rate (mL/min)	DTW (ft)	Comments/Flow Rate (indicate stable flow rate)
900	20.11	7.31	.467	89.2	4.26	14	200	16.05	
905	17.27	6.82	.459	84.9	1.90	10	200	16.05	SOME BUBBLES
910	17.15	6.80	.504	78.9	1.38	6.7	180	16.10	
915	17.31	6.79	.519	75.8	1.14	6.3	180	16.10	
920	17.41	6.80	.521	73.7	1.12	6.0	180	16.10	
925	17.33	6.78	.537	73.0	1.14	5.0	180	16.10	
930	17.45	6.78	.542	71.0	1.09	5.5	180	16.10	
935	17.80	6.76	.553	65.5	1.04	5.0	180	16.15	
940	19.20	6.74	.576	64.1	.99	4.2	180	16.10	
945	18.10	6.74	.579	63.1	.99	4.0	180	16.10	CLEAR
950	19.08	6.75	.586	60.7	.97	4.0	180	16.10	
	3%	±0.1	3%	±10	10%, <0.5	10%, <5	100-400 mL/min		

SAMPLE DATA:

SAMPLE BOTTLE ID TIME	LOCATION	PRESERVATION METHOD	SAMPLE CONTAINER #	TYPE	LABORATORY ANALYSIS
950	CA-MW-5	HCL	2	40mL VOA	VOC
		HNO3	1	500mL POLY	METALS
		NONE	1	1L AMBER	SVOC

PURGE DATA

[ ] 0.04 GAL/FT (1" DIAM.)
[x] 0.16 GAL/FT (2" DIAM.)
[ ] 0.65 GAL/FT (4" DIAM.)
[ ] 1.47 GAL/FT (6" DIAM.)

16 x length of water column =
Total Well Volume: 1.6 g
Total Purge Volume: g
# of well volumes: x 2.5

Stable flow not achieved, sampled via no-purge: [ ]

SAMPLER

LOW FLOW SAMPLING LOG
CREDERE ASSOCIATES. LLC

PROJECT NAME: MADEIRA PROPERTIES DATE: 5/27/2015

PROJECT NUMBER: 14001247

SAMPLE LOCATION ID: CA-MW-8

LOCATION ACTIVITY
START: 1320
END: 1440

WELL DATA:

WELL DEPTH (ft): 23.31 [x] MEASURED [ ] HISTORICAL [x] TOP OF WELL [ ] TOP OF CASING [ ] FROM GRADE [ ]

WATER DEPTH (ft): 19.50 [ ] MEASURED [ ] HISTORICAL

WATER LEVEL EQUIPMENT USED:
[x] ELECT. COND. PROBE
[ ] FLOAT ACTIVATED PROBE
[ ] PRESSURE TRANSDUCER
[ ]
[ ]

DEPTH OF PUMP INTAKE (ft): Stick-up (in):

WELL MATERIAL: [X] PVC [ ] SS [ ]
WELL LOCKED: [X] YES [ ] NO
PROTECTIVE CASING SECURE: [X] YES [ ] NO
CONCRETE COLLAR INTACT: [X] YES [ ] NO

AMBIENT AIR VOC: N/A PPM

WELL MOUTH VOC: N/A PPM

EQUIPMENT DATA:

PURGING	SAMPLING	
[ ]	x	PERISTALTIC PUMP
[ ]	[ ]	SUBMERSIBLE
[ ]	[ ]	BLADDER PUMP
[ ]	[ ]	HAND PUMP
[ ]	[ ]	DEDICATED HDPE
[ ]	[ ]	NEW HDPE
[ ]	x	DEDICATED LDPE
[ ]	[ ]	NEW LDPE
	[ ]	FILTER
[ ]	[ ]	

Equipment
Solinst interface probe, Lamotte 2020 turbidity meter, YSI 556 multi-parameter meter with display, geopump peristaltic pump mL flow through cell

DECONTAMINATION FLUIDS USED:
[ ] DISTILLED WATER
x DEIONIZED WATER
[ ] POTABLE WATER
[ ] TSP SOLUTION
x ALCONOX SOLUTION
[ ] NONE
[ ]
[ ]

FIELD ANALYSIS DATA:

TIME	TEMP (°C)	pH	SP. COND. (mS/cm)	ORP (mV)	D.O. (mg/l)	TURBID. (ntu)	Flow Rate (mL/min)	DTW (ft)	Comments/Flow Rate (Indicate stable flow rate)
1325	12.52	6.88	.768	105.1	2.64	146	160	19.75	
1330	16.19	6.57	.785	29.2	.49	139	160	19.80	
1335	17.22	6.54	.800	-12.2	.43	141	160	19.85	
1340	16.47	6.49	0.782	12.8	0.38 ✓	153	160	19.87	
1345	16.89	6.48	0.815	-95.3	0.40	149	160	19.90	
1355	16.76	6.45	0.853	-101.7	0.48	66.2	160	19.90	
1400	16.87	6.43	0.877	-128.9	0.53	62.4	160	19.90	
1405	17.64	6.42	0.894	-140.1	.54	50.7	160	19.90	
1410	17.23	6.41	0.920	-140.5	0.59	32.8	160	19.90	
1415	17.58	6.40	0.935	-134.1	0.47	23.6	160	19.90	
1420	17.86	6.39	0.963	-132.3	0.64	18.5	160	19.90	
1425	17.71	6.38	0.977	-129.0	0.68	14.6	160	19.90	
1430	17.85	6.38	0.983	-128.4	.70	14.5	160	19.90	
	3%	±0.1	3%	±10	10%, <0.5	10%, <5	100-400 mL/min		

SAMPLE DATA:

SAMPLE BOTTLE ID TIME	LOCATION	PRESERVATION METHOD	SAMPLE CONTAINER #	TYPE	LABORATORY ANALYSIS
1435	CA-MW-8	HCL	2	40mL VOA	VOC
		HNO3	1	500mL POLY	METALS
		NONE	1	1L AMBER	SVOC

PURGE DATA

[ ] 0.04 GAL/FT (1" DIAM.)
[X] 0.16 GAL/FT (2" DIAM.)
[ ] 0.65 GAL/FT (4" DIAM.)
[ ] 1.47 GAL/FT (6" DIAM.)

x length of water column =
Total Well Volume: _____ g
Total Purge Volume: _____ g
# of well volumes:

Stable flow not achieved, sampled via no-purge: [ ]

SAMPLER

LOW FLOW SAMPLING LOG
CREDERE ASSOCIATES. LLC

Credere Associates LLC

PROJECT NAME: MADEIRA PROPERTIES DATE: 5/27/2015

PROJECT NUMBER: 14001247 LOCATION ACTIVITY START: 830

SAMPLE LOCATION ID: CA-MW-9 END: 1000

WELL DATA:

WELL DEPTH (ft): 15.25 [x] MEASURED [ ] HISTORICAL

WATER DEPTH (ft): 12.24 [ ] MEASURED [ ] HISTORICAL

[x] TOP OF WELL [ ] TOP OF CASING [ ] FROM GRADE [ ]

WATER LEVEL EQUIPMENT USED:
[x] ELECT. COND. PROBE
[ ] FLOAT ACTIVATED PROBE
[ ] PRESSURE TRANSDUCER
[ ]
[ ]

DEPTH OF PUMP INTAKE (ft): Stick-up (in):

WELL MATERIAL:	WELL LOCKED:	PROTECTIVE CASING SECURE:	CONCRETE COLLAR INTACT:
[X] PVC	[X] YES	[X] YES	[X] YES
[ ] SS	[ ] NO	[ ] NO	[ ] NO
[ ]			

AMBIENT AIR VOC: N/A PPM

WELL MOUTH VOC: N/A PPM

EQUIPMENT DATA:

PURGING	SAMPLING	
[ ]	x	PERISTALTIC PUMP
[ ]	[ ]	SUBMERSIBLE
[ ]	[ ]	BLADDER PUMP
[ ]	[ ]	HAND PUMP
[ ]	[ ]	DEDICATED HDPE
[ ]	[ ]	NEW HDPE
[ ]	x	DEDICATED LDPE
[ ]	[ ]	NEW LDPE
	[ ]	FILTER
[ ]	[ ]	

Equipment
Solinst interface probe, Lamotte 2020 turbidity meter, YSI multi-parameter meter with display, geopump peristaltic pump mL flow through cell

DECONTAMINATION FLUIDS USED:
[ ] DISTILLED WATER
x DEIONIZED WATER
[ ] POTABLE WATER
[ ] TSP SOLUTION
x ALCONOX SOLUTION
[ ] NONE
[ ]
[ ]

FIELD ANALYSIS DATA:

TIME	TEMP (°C)	pH	SP. COND. (mS/cm)	ORP (mV)	D.O. (mg/l)	TURBID. (ntu)	Flow Rate (mL/min)	DTW (ft)	Comments/Flow Rate (indicate stable flow rate)
900	13.09	6.31	0.919	-32.0	6.92	117	150	12.32	
905	13.16	6.31	0.913	-25.9	6.70	47.0	110	?	water level probe out
910	13.37	6.33	0.910	-18.1	6.68	31.4	100	?	water in it, dried it out
915	13.77	6.34	0.913	-4.8	6.74	26.0	105	?	
920	13.90	6.34	0.914	0.5	6.82	17.7	100	12.30	Stable flow rate
925	14.08	6.34	0.910	7.9	6.91	11.1	105	12.30	
930	14.18	6.34	0.908	14.3	7.00	8.48	105	12.30	
935	13.93 ✓	6.33 ✓	0.908 ✓	16.8 ✓	7.32 ✓	6.32 ✓	120	12.31	STABLE
3%		±0.1	3%	±10	10%, <0.5	10%, <5	100-400 mL/min		

SAMPLE DATA:

SAMPLE BOTTLE ID TIME	LOCATION	PRESERVATION METHOD	SAMPLE CONTAINER #	TYPE	LABORATORY ANALYSIS
0945	CA-MW-9	HCL	2	40mL VOA	VOC
1000		HNO3	1	500mL POLY	METALS
0950		NONE	1	1L AMBER	SVOC

PURGE DATA

[ ] 0.04 GAL/FT (1" DIAM.)
[X] 0.16 GAL/FT (2" DIAM.)
[ ] 0.65 GAL/FT (4" DIAM.)
[ ] 1.47 GAL/FT (6" DIAM.)

x length of water column = 3.01
Total Well Volume: 0.48 g
Total Purge Volume: 1.7 g
# of well volumes: 3.54

Stable flow not achieved, sampled via no-purge: [ ]

Heather Kennedy
SAMPLER

\\me01seusse\Overhead\Environmental Information\Logs\[Well Sampling Log - Low Flow 2015.xls]A

APPENDIX D

ASBESTOS AND LEAD INSPECTOR CERTIFICATIONS

STATE OF NEW HAMPSHIRE

Department of Environmental Services

Asbestos Management & Control Program

ASBESTOS Inspector

Judd Newcomb

DOB: 06-06-1977

Eff. Date: 07/01/14

Exp. Date: 06/30/15

R

AI 000383

Craig A Wright

Craig A. Wright, Director

Air Resources Division

APPENDIX E

LABORATORY ANALYTICAL REPORTS

Laboratory Report

Absolute Resource associates
124 Heritage Avenue Portsmouth NH 03801

Judd Newcomb
CREDERE Associates
776 Main Street
Westbrook, ME 04092

PO Number: 14001247
Job ID: 32937
Date Received: 5/8/15

Project: Madeira 14001247

Attached please find results for the analysis of the samples received on the date referenced above.

The following report has been re-issued to provide the results for the re-extracted PAH analysis of sample CA-SS-4.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 6/30/2015
Total number of pages: 99

Absolute Resource Associates Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Madeira 14001247
Lab ID: 32937

Sample Association Table

Field ID	Matrix	Date-Time Sampled	Lab#	Analysis
CA-SB-1 (6-8)	Solid	5/8/2015 13:30	32937-001	
				Acid & Base/Neutral Extractables in solid by 8270
				Soil Digestion for ICP Analysis
				Silver in solids by 6010
				Arsenic in solids by 6010
				Barium in solids by 6010
				Cadmium in solids by 6010
				Chromium in solids by 6010
				Mercury in solids by 7471
				Lead in solids by 6010
				Selenium in solids by 6010
				Percent Dry Matter for Sample Calc by SM2540B,G
				VOCs in solid by 8260 Petro & Haz Waste
CA-SB-2 (4-6)	Solid	5/8/2015 12:45	32937-002	
				Acid & Base/Neutral Extractables in solid by 8270
				Soil Digestion for ICP Analysis
				Silver in solids by 6010
				Arsenic in solids by 6010
				Barium in solids by 6010
				Cadmium in solids by 6010
				Chromium in solids by 6010
				Mercury in solids by 7471
				Lead in solids by 6010
				Selenium in solids by 6010
				Percent Dry Matter for Sample Calc by SM2540B,G
				VOCs in solid by 8260 Petro & Haz Waste
CA-SB-3 (2-4)	Solid	5/8/2015 11:45	32937-003	
				PCBs in soil by 8082
				Acid & Base/Neutral Extractables in solid by 8270
				Soil Digestion for ICP Analysis
				Silver in solids by 6010
				Arsenic in solids by 6010
				Barium in solids by 6010
				Cadmium in solids by 6010
				Chromium in solids by 6010
				Mercury in solids by 7471
				Lead in solids by 6010
				Selenium in solids by 6010
				Percent Dry Matter for Sample Calc by SM2540B,G
				VOCs in solid by 8260 Petro & Haz Waste
CA-DUP	Solid	5/8/2015 0:00	32937-004	
				PCBs in soil by 8082
				Acid & Base/Neutral Extractables in solid by 8270
				Soil Digestion for ICP Analysis
				Silver in solids by 6010
				Arsenic in solids by 6010
				Barium in solids by 6010
				Cadmium in solids by 6010
				Chromium in solids by 6010
				Mercury in solids by 7471
				Lead in solids by 6010
				Selenium in solids by 6010

Absolute Resource associates

Project ID: Madeira 14001247
Lab ID: 32937

Sample Association Table

Field ID	Matrix	Date-Time Sampled	Lab#	Analysis
CA-DUP	Solid	5/8/2015 0:00	32937-004	
				Percent Dry Matter for Sample Calc by SM2540B,G
				VOCs in solid by 8260 Petro & Haz Waste
CA-SB-3 (4-6)	Solid	5/8/2015 11:50	32937-005	
				PCBs in soil by 8082
				Acid & Base/Neutral Extractables in solid by 8270
				Soil Digestion for ICP Analysis
				Silver in solids by 6010
				Arsenic in solids by 6010
				Barium in solids by 6010
				Cadmium in solids by 6010
				Chromium in solids by 6010
				Mercury in solids by 7471
				Lead in solids by 6010
				Selenium in solids by 6010
				Percent Dry Matter for Sample Calc by SM2540B,G
				VOCs in solid by 8260 Petro & Haz Waste
CA-SB-4 (0-2)	Solid	5/8/2015 11:00	32937-006	
				PCBs in soil by 8082
				Acid & Base/Neutral Extractables in solid by 8270
				Soil Digestion for ICP Analysis
				Silver in solids by 6010
				Arsenic in solids by 6010
				Barium in solids by 6010
				Cadmium in solids by 6010
				Chromium in solids by 6010
				Mercury in solids by 7471
				Lead in solids by 6010
				Selenium in solids by 6010
				Percent Dry Matter for Sample Calc by SM2540B,G
				VOCs in solid by 8260 Petro & Haz Waste
CA-SB-4 (8-10)	Solid	5/8/2015 11:10	32937-007	
				PCBs in soil by 8082
				Acid & Base/Neutral Extractables in solid by 8270
				Soil Digestion for ICP Analysis
				Silver in solids by 6010
				Arsenic in solids by 6010
				Barium in solids by 6010
				Cadmium in solids by 6010
				Chromium in solids by 6010
				Mercury in solids by 7471
				Lead in solids by 6010
				Selenium in solids by 6010
				Percent Dry Matter for Sample Calc by SM2540B,G
				VOCs in solid by 8260 Petro & Haz Waste
CA-SB-5 (4-6)	Solid	5/7/2015 15:00	32937-008	
				PCBs in soil by 8082
				TPH in solids by 8100
				Acid & Base/Neutral Extractables in solid by 8270
				Soil Digestion for ICP Analysis
				Silver in solids by 6010
				Arsenic in solids by 6010

Project ID: Madeira 14001247

Lab ID: 32937

Sample Association Table

Field ID	Matrix	Date-Time Sampled	Lab#	Analysis
CA-SB-5 (4-6)	Solid	5/7/2015 15:00	32937-008	
				Barium in solids by 6010
				Cadmium in solids by 6010
				Chromium in solids by 6010
				Mercury in solids by 7471
				Lead in solids by 6010
				Selenium in solids by 6010
				Percent Dry Matter for Sample Calc by SM2540B,G
				VOCs in solid by 8260 Petro & Haz Waste
CA-SB-6 (6-8)	Solid	5/7/2015 9:10	32937-009	
				TPH in solids by 8100
				Acid & Base/Neutral Extractables in solid by 8270
				Percent Dry Matter for Sample Calc by SM2540B,G
				VOCs in solid by 8260 Petro & Haz Waste
CA-SB-7 (4-6)	Solid	5/8/2015 10:15	32937-010	
				TPH in solids by 8100
				Acid & Base/Neutral Extractables in solid by 8270
				Percent Dry Matter for Sample Calc by SM2540B,G
				VOCs in solid by 8260 Petro & Haz Waste
CA-SB-8 (6-8)	Solid	5/7/2015 10:30	32937-011	
				TPH in solids by 8100
				Acid & Base/Neutral Extractables in solid by 8270
				Percent Dry Matter for Sample Calc by SM2540B,G
				VOCs in solid by 8260 Petro & Haz Waste
CA-SB-9 (12-14/12.5)	Solid	5/7/2015 12:30	32937-012	
				PCBs in soil by 8082
				TPH in solids by 8100
				Acid & Base/Neutral Extractables in solid by 8270
				Soil Digestion for ICP Analysis
				Silver in solids by 6010
				Arsenic in solids by 6010
				Barium in solids by 6010
				Cadmium in solids by 6010
				Chromium in solids by 6010
				Mercury in solids by 7471
				Lead in solids by 6010
				Selenium in solids by 6010
				Percent Dry Matter for Sample Calc by SM2540B,G
				VOCs in solid by 8260 Petro & Haz Waste
CA-SS-1	Solid	5/7/2015 0:00	32937-013	
				PCBs in soil by 8082
				PAHs in solid by 8270
				Soil Digestion for ICP Analysis
				Silver in solids by 6010
				Arsenic in solids by 6010
				Barium in solids by 6010
				Cadmium in solids by 6010
				Chromium in solids by 6010
				Mercury in solids by 7471
				Lead in solids by 6010
				Selenium in solids by 6010

Project ID: Madeira 14001247
Lab ID: 32937

Sample Association Table

Field ID	Matrix	Date-Time Sampled	Lab#	Analysis
CA-SS-1	Solid	5/7/2015 0:00	32937-013	
				Percent Dry Matter for Sample Calc by SM2540B,G
CA-SS-2	Solid	5/7/2015 0:00	32937-014	
				PCBs in soil by 8082
				PAHs in solid by 8270
				Soil Digestion for ICP Analysis
				Silver in solids by 6010
				Arsenic in solids by 6010
				Barium in solids by 6010
				Cadmium in solids by 6010
				Chromium in solids by 6010
				Mercury in solids by 7471
				Lead in solids by 6010
				Selenium in solids by 6010
				Percent Dry Matter for Sample Calc by SM2540B,G
CA-SS-3	Solid	5/7/2015 0:00	32937-015	
				PCBs in soil by 8082
				PAHs in solid by 8270
				Soil Digestion for ICP Analysis
				Silver in solids by 6010
				Arsenic in solids by 6010
				Barium in solids by 6010
				Cadmium in solids by 6010
				Chromium in solids by 6010
				Mercury in solids by 7471
				Lead in solids by 6010
				Selenium in solids by 6010
				Percent Dry Matter for Sample Calc by SM2540B,G
CA-SS-4	Solid	5/7/2015 0:00	32937-016	
				PCBs in soil by 8082
				PAHs in solid by 8270
				Soil Digestion for ICP Analysis
				Silver in solids by 6010
				Arsenic in solids by 6010
				Barium in solids by 6010
				Cadmium in solids by 6010
				Chromium in solids by 6010
				Mercury in solids by 7471
				Lead in solids by 6010
				Selenium in solids by 6010
				Percent Dry Matter for Sample Calc by SM2540B,G
CA-SS-5	Solid	5/7/2015 0:00	32937-017	
				PCBs in soil by 8082
				PAHs in solid by 8270
				Soil Digestion for ICP Analysis
				Silver in solids by 6010
				Arsenic in solids by 6010
				Barium in solids by 6010
				Cadmium in solids by 6010
				Chromium in solids by 6010
				Mercury in solids by 7471
				Lead in solids by 6010

Project ID: Madeira 14001247
Lab ID: 32937

Sample Association Table

Field ID	Matrix	Date-Time Sampled	Lab#	Analysis
CA-SS-5	Solid	5/7/2015 0:00	32937-017	
				Selenium in solids by 6010
				Percent Dry Matter for Sample Calc by SM2540B,G
Trip Blank	Solid	5/7/2015 0:00	32937-018	
				VOCs in solid by 8260 Petro & Haz Waste
CA-SS-4 RE-EXTRACT	Solid	5/7/2015 0:00	32937-019	
				PAHs in solid by 8270
				Percent Dry Matter for Sample Calc by SM2540B,G

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-001
Sample ID: CA-SB-1 (6-8)
Matrix: Solid Percent Dry: 76.5% Results expressed on a dry weight basis.
Sampled: 5/8/15 13:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
chloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
vinyl chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
bromomethane	< 0.3	0.3	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
chloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
trichlorofluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
diethyl ether	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
acetone	< 3	3	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,1-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
methylene chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
carbon disulfide	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
methyl t-butyl ether (MTBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
trans-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
isopropyl ether (DIPE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
ethyl t-butyl ether (ETBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,1-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
t-butanol (TBA)	< 3	3	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
2-butanone (MEK)	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
2,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
cis-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
chloroform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
bromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
tetrahydrofuran (THF)	< 0.6	0.6	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,1,1-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,1-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
t-amyl-methyl ether (TAME)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
carbon tetrachloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,2-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
benzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
trichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
bromodichloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,4-dioxane	< 3	3	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
dibromomethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 0.6	0.6	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
cis-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
toluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
trans-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
2-hexanone	< 0.6	0.6	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,1,2-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,3-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
tetrachloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
dibromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-001
Sample ID: CA-SB-1 (6-8)
Matrix: Solid Percent Dry: 76.5% Results expressed on a dry weight basis.
Sampled: 5/8/15 13:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
chlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,1,1,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
ethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
m&p-xylenes	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
o-xylene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
styrene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
bromoform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
isopropylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,1,2,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,2,3-trichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
n-propylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
bromobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,3,5-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
2-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
4-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
tert-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,2,4-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
sec-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,3-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
4-isopropyltoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,4-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,2-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
n-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,2,4-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,3,5-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
hexachlorobutadiene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
naphthalene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
1,2,3-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**97**	78-114	%	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
toluene-D8 SUR	**101**	88-110	%	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
4-bromofluorobenzene SUR	**100**	86-115	%	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C
a,a,a-trifluorotoluene SUR	**104**	70-130	%	1	LMM	5/13/15	7822	5/14/15	13:10	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-002
Sample ID: CA-SB-2 (4-6)
Matrix: Solid Percent Dry: 77.6% Results expressed on a dry weight basis.
Sampled: 5/8/15 12:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
chloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
vinyl chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
bromomethane	< 0.3	0.3	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
chloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
trichlorofluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
diethyl ether	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
acetone	< 3	3	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,1-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
methylene chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
carbon disulfide	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
methyl t-butyl ether (MTBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
trans-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
isopropyl ether (DIPE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
ethyl t-butyl ether (ETBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,1-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
t-butanol (TBA)	< 3	3	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
2-butanone (MEK)	< 0.3	0.3	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
2,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
cis-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
chloroform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
bromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
tetrahydrofuran (THF)	< 0.6	0.6	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,1,1-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,1-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
t-amyl-methyl ether (TAME)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
carbon tetrachloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,2-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
benzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
trichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
bromodichloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,4-dioxane	< 3	3	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
dibromomethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 0.5	0.5	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
cis-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
toluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
trans-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
2-hexanone	< 0.6	0.6	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,1,2-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,3-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
tetrachloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
dibromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-002
Sample ID: CA-SB-2 (4-6)
Matrix: Solid Percent Dry: 77.6% Results expressed on a dry weight basis.
Sampled: 5/8/15 12:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
chlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,1,1,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
ethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
m&p-xylenes	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
o-xylene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
styrene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
bromoform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
isopropylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,1,2,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,2,3-trichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
n-propylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
bromobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,3,5-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
2-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
4-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
tert-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,2,4-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
sec-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,3-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
4-isopropyltoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,4-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,2-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
n-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,2,4-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,3,5-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
hexachlorobutadiene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
naphthalene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
1,2,3-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**95**	78-114	%	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
toluene-D8 SUR	**101**	88-110	%	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
4-bromofluorobenzene SUR	**98**	86-115	%	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C
a,a,a-trifluorotoluene SUR	**111**	70-130	%	1	LMM	5/13/15	7822	5/14/15	13:39	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-003
Sample ID: CA-SB-3 (2-4)
Matrix: Solid Percent Dry: 82.7% Results expressed on a dry weight basis.
Sampled: 5/8/15 11:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
chloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
vinyl chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
bromomethane	< 0.3	0.3	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
chloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
trichlorofluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
diethyl ether	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
acetone	< 3	3	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,1-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
methylene chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
carbon disulfide	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
methyl t-butyl ether (MTBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
trans-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
isopropyl ether (DIPE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
ethyl t-butyl ether (ETBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,1-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
t-butanol (TBA)	< 3	3	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
2-butanone (MEK)	< 0.3	0.3	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
2,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
cis-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
chloroform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
bromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
tetrahydrofuran (THF)	< 0.5	0.5	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,1,1-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,1-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
t-amyl-methyl ether (TAME)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
carbon tetrachloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,2-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
benzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
trichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
bromodichloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,4-dioxane	< 3	3	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
dibromomethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 0.5	0.5	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
cis-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
toluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
trans-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
2-hexanone	< 0.5	0.5	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,1,2-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,3-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
tetrachloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
dibromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-003
Sample ID: CA-SB-3 (2-4)
Matrix: Solid Percent Dry: 82.7% Results expressed on a dry weight basis.
Sampled: 5/8/15 11:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
chlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,1,1,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
ethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
m&p-xylenes	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
o-xylene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
styrene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
bromoform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
isopropylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,1,2,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,2,3-trichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
n-propylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
bromobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,3,5-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
2-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
4-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
tert-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,2,4-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
sec-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,3-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
4-isopropyltoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,4-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,2-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
n-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,2,4-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,3,5-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
hexachlorobutadiene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
naphthalene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
1,2,3-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**96**	78-114	%	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
toluene-D8 SUR	**103**	88-110	%	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
4-bromofluorobenzene SUR	**106**	86-115	%	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C
a,a,a-trifluorotoluene SUR	**103**	70-130	%	1	LMM	5/13/15	7822	5/14/15	14:08	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-004
Sample ID: CA-DUP
Matrix: Solid Percent Dry: 76.8% Results expressed on a dry weight basis.
Sampled: 5/8/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
chloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
vinyl chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
bromomethane	< 0.3	0.3	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
chloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
trichlorofluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
diethyl ether	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
acetone	< 3	3	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,1-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
methylene chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
carbon disulfide	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
methyl t-butyl ether (MTBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
trans-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
isopropyl ether (DIPE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
ethyl t-butyl ether (ETBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,1-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
t-butanol (TBA)	< 3	3	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
2-butanone (MEK)	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
2,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
cis-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
chloroform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
bromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
tetrahydrofuran (THF)	< 0.6	0.6	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,1,1-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,1-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
t-amyl-methyl ether (TAME)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
carbon tetrachloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,2-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
benzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
trichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
bromodichloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,4-dioxane	< 3	3	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
dibromomethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 0.6	0.6	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
cis-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
toluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
trans-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
2-hexanone	< 0.6	0.6	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,1,2-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,3-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
tetrachloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
dibromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C

Absolute Resource associates

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-004
Sample ID: CA-DUP
Matrix: Solid Percent Dry: 76.8% Results expressed on a dry weight basis.
Sampled: 5/8/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
chlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,1,1,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
ethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
m&p-xylenes	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
o-xylene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
styrene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
bromoform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
isopropylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,1,2,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,2,3-trichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
n-propylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
bromobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,3,5-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
2-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
4-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
tert-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,2,4-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
sec-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,3-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
4-isopropyltoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,4-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,2-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
n-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,2,4-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,3,5-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
hexachlorobutadiene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
naphthalene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
1,2,3-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**95**	78-114	%	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
toluene-D8 SUR	**101**	88-110	%	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
4-bromofluorobenzene SUR	**102**	86-115	%	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C
a,a,a-trifluorotoluene SUR	**120**	70-130	%	1	LMM	5/13/15	7822	5/14/15	14:38	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-005
Sample ID: CA-SB-3 (4-6)
Matrix: Solid Percent Dry: 84.3% Results expressed on a dry weight basis.
Sampled: 5/8/15 11:50

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
chloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
vinyl chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
bromomethane	< 0.2	0.2	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
chloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
trichlorofluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
diethyl ether	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
acetone	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,1-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
methylene chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
carbon disulfide	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
methyl t-butyl ether (MTBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
trans-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
isopropyl ether (DIPE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
ethyl t-butyl ether (ETBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,1-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
t-butanol (TBA)	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
2-butanone (MEK)	< 0.3	0.3	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
2,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
cis-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
chloroform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
bromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
tetrahydrofuran (THF)	< 0.5	0.5	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,1,1-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,1-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
t-amyl-methyl ether (TAME)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
carbon tetrachloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,2-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
benzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
trichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
bromodichloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,4-dioxane	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
dibromomethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
cis-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
toluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
trans-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
2-hexanone	< 0.5	0.5	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,1,2-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,3-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
tetrachloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
dibromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-005
Sample ID: CA-SB-3 (4-6)
Matrix: Solid Percent Dry: 84.3% Results expressed on a dry weight basis.
Sampled: 5/8/15 11:50

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
chlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,1,1,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
ethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
m&p-xylenes	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
o-xylene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
styrene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
bromoform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
isopropylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,1,2,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,2,3-trichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
n-propylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
bromobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,3,5-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
2-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
4-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
tert-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,2,4-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
sec-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,3-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
4-isopropyltoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,4-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,2-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
n-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,2,4-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,3,5-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
hexachlorobutadiene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
naphthalene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
1,2,3-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**95**	78-114	%	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
toluene-D8 SUR	**103**	88-110	%	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
4-bromofluorobenzene SUR	**104**	86-115	%	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C
a,a,a-trifluorotoluene SUR	**113**	70-130	%	1	LMM	5/13/15	7822	5/14/15	15:07	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-006
Sample ID: CA-SB-4 (0-2)
Matrix: Solid Percent Dry: 86.6% Results expressed on a dry weight basis.
Sampled: 5/8/15 11:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
chloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
vinyl chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
bromomethane	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
chloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
trichlorofluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
diethyl ether	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
acetone	< 4	4	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,1-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
methylene chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
carbon disulfide	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
methyl t-butyl ether (MTBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
trans-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
isopropyl ether (DIPE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
ethyl t-butyl ether (ETBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,1-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
t-butanol (TBA)	< 4	4	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
2-butanone (MEK)	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
2,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
cis-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
chloroform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
bromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
tetrahydrofuran (THF)	< 0.7	0.7	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,1,1-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,1-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
t-amyl-methyl ether (TAME)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
carbon tetrachloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,2-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
benzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
trichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
bromodichloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,4-dioxane	< 4	4	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
dibromomethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 0.7	0.7	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
cis-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
toluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
trans-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
2-hexanone	< 0.7	0.7	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,1,2-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,3-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
tetrachloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
dibromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-006
Sample ID: CA-SB-4 (0-2)
Matrix: Solid Percent Dry: 86.6% Results expressed on a dry weight basis.
Sampled: 5/8/15 11:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
chlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,1,1,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
ethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
m&p-xylenes	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
o-xylene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
styrene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
bromoform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
isopropylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,1,2,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,2,3-trichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
n-propylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
bromobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,3,5-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
2-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
4-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
tert-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,2,4-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
sec-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,3-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
4-isopropyltoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,4-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,2-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
n-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,2,4-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,3,5-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
hexachlorobutadiene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
naphthalene	**0.2**	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
1,2,3-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**93**	78-114	%	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
toluene-D8 SUR	**100**	88-110	%	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
4-bromofluorobenzene SUR	**104**	86-115	%	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C
a,a,a-trifluorotoluene SUR	**112**	70-130	%	1	LMM	5/13/15	7822	5/14/15	15:36	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-007
Sample ID: CA-SB-4 (8-10)
Matrix: Solid Percent Dry: 79.1% Results expressed on a dry weight basis.
Sampled: 5/8/15 11:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
chloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
vinyl chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
bromomethane	< 0.2	0.2	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
chloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
trichlorofluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
diethyl ether	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
acetone	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,1-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
methylene chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
carbon disulfide	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
methyl t-butyl ether (MTBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
trans-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
isopropyl ether (DIPE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
ethyl t-butyl ether (ETBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,1-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
t-butanol (TBA)	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
2-butanone (MEK)	< 0.3	0.3	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
2,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
cis-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
chloroform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
bromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
tetrahydrofuran (THF)	< 0.5	0.5	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,1,1-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,1-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
t-amyl-methyl ether (TAME)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
carbon tetrachloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,2-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
benzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
trichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
bromodichloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,4-dioxane	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
dibromomethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
cis-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
toluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
trans-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
2-hexanone	< 0.5	0.5	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,1,2-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,3-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
tetrachloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
dibromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-007
Sample ID: CA-SB-4 (8-10)
Matrix: Solid Percent Dry: 79.1% Results expressed on a dry weight basis.
Sampled: 5/8/15 11:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
chlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,1,1,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
ethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
m&p-xylenes	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
o-xylene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
styrene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
bromoform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
isopropylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,1,2,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,2,3-trichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
n-propylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
bromobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,3,5-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
2-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
4-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
tert-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,2,4-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
sec-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,3-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
4-isopropyltoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,4-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,2-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
n-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,2,4-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,3,5-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
hexachlorobutadiene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
naphthalene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
1,2,3-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**93**	78-114	%	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
toluene-D8 SUR	**100**	88-110	%	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
4-bromofluorobenzene SUR	**105**	86-115	%	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C
a,a,a-trifluorotoluene SUR	**110**	70-130	%	1	LMM	5/13/15	7822	5/14/15	16:05	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-008
Sample ID: CA-SB-5 (4-6)
Matrix: Solid Percent Dry: 92.7% Results expressed on a dry weight basis.
Sampled: 5/7/15 15:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
chloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
vinyl chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
bromomethane	< 0.2	0.2	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
chloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
trichlorofluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
diethyl ether	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
acetone	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,1-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
methylene chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
carbon disulfide	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
methyl t-butyl ether (MTBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
trans-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
isopropyl ether (DIPE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
ethyl t-butyl ether (ETBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,1-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
t-butanol (TBA)	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
2-butanone (MEK)	< 0.3	0.3	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
2,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
cis-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
chloroform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
bromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
tetrahydrofuran (THF)	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,1,1-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,1-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
t-amyl-methyl ether (TAME)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
carbon tetrachloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,2-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
benzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
trichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
bromodichloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,4-dioxane	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
dibromomethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
cis-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
toluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
trans-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
2-hexanone	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,1,2-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,3-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
tetrachloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
dibromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-008
Sample ID: CA-SB-5 (4-6)
Matrix: Solid Percent Dry: 92.7% Results expressed on a dry weight basis.
Sampled: 5/7/15 15:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
chlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,1,1,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
ethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
m&p-xylenes	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
o-xylene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
styrene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
bromoform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
isopropylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,1,2,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,2,3-trichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
n-propylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
bromobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,3,5-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
2-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
4-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
tert-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,2,4-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
sec-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,3-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
4-isopropyltoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,4-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,2-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
n-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,2,4-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,3,5-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
hexachlorobutadiene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
naphthalene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
1,2,3-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**100**	78-114	%	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
toluene-D8 SUR	**101**	88-110	%	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
4-bromofluorobenzene SUR	**104**	86-115	%	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C
a,a,a-trifluorotoluene SUR	**107**	70-130	%	1	LMM	5/13/15	7822	5/14/15	20:31	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-009
Sample ID: CA-SB-6 (6-8)
Matrix: Solid Percent Dry: 90.6% Results expressed on a dry weight basis.
Sampled: 5/7/15 9:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
chloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
vinyl chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
bromomethane	< 0.2	0.2	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
chloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
trichlorofluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
diethyl ether	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
acetone	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,1-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
methylene chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
carbon disulfide	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
methyl t-butyl ether (MTBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
trans-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
isopropyl ether (DIPE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
ethyl t-butyl ether (ETBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,1-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
t-butanol (TBA)	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
2-butanone (MEK)	< 0.2	0.2	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
2,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
cis-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
chloroform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
bromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
tetrahydrofuran (THF)	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,1,1-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,1-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
t-amyl-methyl ether (TAME)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
carbon tetrachloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,2-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
benzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
trichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
bromodichloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,4-dioxane	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
dibromomethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 0.3	0.3	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
cis-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
toluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
trans-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
2-hexanone	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,1,2-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,3-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
tetrachloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
dibromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-009
Sample ID: CA-SB-6 (6-8)
Matrix: Solid Percent Dry: 90.6% Results expressed on a dry weight basis.
Sampled: 5/7/15 9:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
chlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,1,1,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
ethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
m&p-xylenes	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
o-xylene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
styrene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
bromoform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
isopropylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,1,2,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,2,3-trichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
n-propylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
bromobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,3,5-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
2-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
4-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
tert-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,2,4-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
sec-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,3-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
4-isopropyltoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,4-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,2-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
n-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,2,4-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,3,5-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
hexachlorobutadiene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
naphthalene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
1,2,3-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**98**	78-114	%	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
toluene-D8 SUR	**102**	88-110	%	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
4-bromofluorobenzene SUR	**103**	86-115	%	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C
a,a,a-trifluorotoluene SUR	**107**	70-130	%	1	LMM	5/13/15	7822	5/14/15	21:01	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-010
Sample ID: CA-SB-7 (4-6)
Matrix: Solid Percent Dry: 89.4% Results expressed on a dry weight basis.
Sampled: 5/8/15 10:15

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
chloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
vinyl chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
bromomethane	< 0.2	0.2	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
chloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
trichlorofluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
diethyl ether	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
acetone	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,1-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
methylene chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
carbon disulfide	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
methyl t-butyl ether (MTBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
trans-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
isopropyl ether (DIPE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
ethyl t-butyl ether (ETBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,1-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
t-butanol (TBA)	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
2-butanone (MEK)	< 0.2	0.2	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
2,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
cis-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
chloroform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
bromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
tetrahydrofuran (THF)	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,1,1-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,1-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
t-amyl-methyl ether (TAME)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
carbon tetrachloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,2-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
benzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
trichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
bromodichloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,4-dioxane	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
dibromomethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 0.3	0.3	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
cis-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
toluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
trans-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
2-hexanone	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,1,2-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,3-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
tetrachloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
dibromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-010
Sample ID: CA-SB-7 (4-6)
Matrix: Solid Percent Dry: 89.4% Results expressed on a dry weight basis.
Sampled: 5/8/15 10:15

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
chlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,1,1,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
ethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
m&p-xylenes	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
o-xylene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
styrene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
bromoform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
isopropylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,1,2,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,2,3-trichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
n-propylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
bromobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,3,5-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
2-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
4-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
tert-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,2,4-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
sec-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,3-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
4-isopropyltoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,4-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,2-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
n-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,2,4-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,3,5-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
hexachlorobutadiene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
naphthalene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
1,2,3-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**98**	78-114	%	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
toluene-D8 SUR	**104**	88-110	%	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
4-bromofluorobenzene SUR	**99**	86-115	%	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C
a,a,a-trifluorotoluene SUR	**112**	70-130	%	1	LMM	5/13/15	7822	5/14/15	21:31	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-011
Sample ID: CA-SB-8 (6-8)
Matrix: Solid Percent Dry: 97.1% Results expressed on a dry weight basis.
Sampled: 5/7/15 10:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
chloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
vinyl chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
bromomethane	< 0.2	0.2	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
chloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
trichlorofluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
diethyl ether	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
acetone	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,1-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
methylene chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
carbon disulfide	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
methyl t-butyl ether (MTBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
trans-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
isopropyl ether (DIPE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
ethyl t-butyl ether (ETBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,1-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
t-butanol (TBA)	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
2-butanone (MEK)	< 0.3	0.3	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
2,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
cis-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
chloroform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
bromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
tetrahydrofuran (THF)	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,1,1-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,1-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
t-amyl-methyl ether (TAME)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
carbon tetrachloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,2-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
benzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
trichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
bromodichloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,4-dioxane	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
dibromomethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
cis-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
toluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
trans-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
2-hexanone	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,1,2-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,3-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
tetrachloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
dibromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-011
Sample ID: CA-SB-8 (6-8)
Matrix: Solid Percent Dry: 97.1% Results expressed on a dry weight basis.
Sampled: 5/7/15 10:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
chlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,1,1,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
ethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
m&p-xylenes	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
o-xylene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
styrene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
bromoform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
isopropylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,1,2,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,2,3-trichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
n-propylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
bromobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,3,5-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
2-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
4-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
tert-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,2,4-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
sec-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,3-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
4-isopropyltoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,4-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,2-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
n-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,2,4-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,3,5-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
hexachlorobutadiene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
naphthalene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
1,2,3-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**95**	78-114	%	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
toluene-D8 SUR	**103**	88-110	%	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
4-bromofluorobenzene SUR	**105**	86-115	%	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C
a,a,a-trifluorotoluene SUR	**107**	70-130	%	1	LMM	5/13/15	7822	5/14/15	22:02	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-012
Sample ID: CA-SB-9 (12-14/12.5)
Matrix: Solid Percent Dry: 90.2% Results expressed on a dry weight basis.
Sampled: 5/7/15 12:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
chloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
vinyl chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
bromomethane	< 0.2	0.2	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
chloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
trichlorofluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
diethyl ether	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
acetone	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,1-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
methylene chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
carbon disulfide	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
methyl t-butyl ether (MTBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
trans-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
isopropyl ether (DIPE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
ethyl t-butyl ether (ETBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,1-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
t-butanol (TBA)	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
2-butanone (MEK)	< 0.3	0.3	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
2,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
cis-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
chloroform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
bromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
tetrahydrofuran (THF)	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,1,1-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,1-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
t-amyl-methyl ether (TAME)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
carbon tetrachloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,2-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
benzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
trichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
bromodichloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,4-dioxane	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
dibromomethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
cis-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
toluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
trans-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
2-hexanone	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,1,2-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,3-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
tetrachloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
dibromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-012
Sample ID: CA-SB-9 (12-14/12.5)
Matrix: Solid Percent Dry: 90.2% Results expressed on a dry weight basis.
Sampled: 5/7/15 12:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
chlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,1,1,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
ethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
m&p-xylenes	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
o-xylene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
styrene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
bromoform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
isopropylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,1,2,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,2,3-trichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
n-propylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
bromobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,3,5-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
2-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
4-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
tert-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,2,4-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
sec-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,3-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
4-isopropyltoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,4-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,2-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
n-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,2,4-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,3,5-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
hexachlorobutadiene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
naphthalene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
1,2,3-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**96**	78-114	%	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
toluene-D8 SUR	**101**	88-110	%	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
4-bromofluorobenzene SUR	**104**	86-115	%	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C
a,a,a-trifluorotoluene SUR	**109**	70-130	%	1	LMM	5/13/15	7822	5/14/15	22:32	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-018
Sample ID: Trip Blank
Matrix: Solid
Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
chloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
vinyl chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
bromomethane	< 0.2	0.2	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
chloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
trichlorofluoromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
diethyl ether	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
acetone	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,1-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
methylene chloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
carbon disulfide	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
methyl t-butyl ether (MTBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
trans-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
isopropyl ether (DIPE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
ethyl t-butyl ether (ETBE)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,1-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
t-butanol (TBA)	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
2-butanone (MEK)	< 0.3	0.3	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
2,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
cis-1,2-dichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
chloroform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
bromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
tetrahydrofuran (THF)	< 0.5	0.5	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,1,1-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,1-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
t-amyl-methyl ether (TAME)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
carbon tetrachloride	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,2-dichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
benzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
trichloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,2-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
bromodichloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,4-dioxane	< 2	2	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
dibromomethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 0.4	0.4	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
cis-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
toluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
trans-1,3-dichloropropene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
2-hexanone	< 0.5	0.5	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,1,2-trichloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,3-dichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
tetrachloroethene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
dibromochloromethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-018
Sample ID: Trip Blank
Matrix: Solid
Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
chlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,1,1,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
ethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
m&p-xylenes	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
o-xylene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
styrene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
bromoform	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
isopropylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,1,2,2-tetrachloroethane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,2,3-trichloropropane	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
n-propylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
bromobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,3,5-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
2-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
4-chlorotoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
tert-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,2,4-trimethylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
sec-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,3-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
4-isopropyltoluene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,4-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,2-dichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
n-butylbenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,2,4-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,3,5-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
hexachlorobutadiene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
naphthalene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
1,2,3-trichlorobenzene	< 0.1	0.1	ug/g	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**99**	78-114	%	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
toluene-D8 SUR	**102**	88-110	%	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
4-bromofluorobenzene SUR	**105**	86-115	%	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C
a,a,a-trifluorotoluene SUR	**109**	70-130	%	1	LMM	5/13/15	7822	5/14/15	12:41	SW5035A8260C

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-001
Sample ID: CA-SB-1 (6-8)
Matrix: Solid Percent Dry: 76.5% Results expressed on a dry weight basis.
Sampled: 5/8/15 13:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
aniline	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
phenol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
2-chlorophenol	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
bis(2-chloroethyl)ether	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
1,3-dichlorobenzene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
1,4-dichlorobenzene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
1,2-dichlorobenzene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
benzyl alcohol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
2-methylphenol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
bis(2-chloroisopropyl) ether	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
hexachloroethane	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
N-nitroso-di-N-propylamine	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
4-methylphenol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
nitrobenzene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
isophorone	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
2-nitrophenol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
2,4-dimethylphenol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
bis(2-chloroethoxy)methane	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
2,4-dichlorophenol	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
1,2,4-trichlorobenzene	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
naphthalene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
benzoic acid	< 6	6	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
4-chloroaniline	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
hexachlorobutadiene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
4-chloro-3-methylphenol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
2-methylnaphthalene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
hexachlorocyclopentadiene	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
2,4,6-trichlorophenol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
2,4,5-trichlorophenol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
2-chloronaphthalene	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
2-nitroaniline	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
acenaphthylene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
dimethylphthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
2,6-dinitrotoluene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
2,4-dinitrotoluene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
acenaphthene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
3-nitroaniline	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
2,4-dinitrophenol	< 6	6	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
dibenzofuran	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
4-nitrophenol	< 3	3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
fluorene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
diethyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-001
Sample ID: CA-SB-1 (6-8)
Matrix: Solid Percent Dry: 76.5% Results expressed on a dry weight basis.
Sampled: 5/8/15 13:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
4-nitroaniline	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
4,6-dinitro-2-methylphenol	< 3	3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
azobenzene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
N-nitrosodiphenylamine	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
4-bromophenyl phenyl ether	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
hexachlorobenzene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
phenanthrene	**0.17**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
anthracene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
carbazole	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
di-n-butylphthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
fluoranthene	**0.24**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
benzidine	< 4	4	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
pyrene	**0.28**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
butyl benzyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
benzo(a)anthracene	**0.14**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
chrysene	**0.18**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
3,3'-dichlorobenzidine	< 4	4	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
bis(2-ethylhexyl)phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
di-n-octyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
benzo(b)fluoranthene	**0.19**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
benzo(k)fluoranthene	**0.11**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
benzo(a)pyrene	**0.13**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
dibenzo(a,h)anthracene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
benzo(g,h,i)perylene	**0.07**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**63**	21-100	%	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
phenol-D5 SUR	**67**	10-102	%	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
2,4,6-tribromophenol SUR	**81**	10-123	%	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
nitrobenzene-D5 SUR	**58**	35-114	%	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
2-fluorobiphenyl SUR	**73**	43-116	%	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D
p-terphenyl-D14 SUR	**69**	33-141	%	1	AJD	5/12/15	7832	5/14/15	17:37	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-002
Sample ID: CA-SB-2 (4-6)
Matrix: Solid Percent Dry: 77.6% Results expressed on a dry weight basis.
Sampled: 5/8/15 12:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
aniline	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
phenol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
2-chlorophenol	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
bis(2-chloroethyl)ether	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
1,3-dichlorobenzene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
1,4-dichlorobenzene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
1,2-dichlorobenzene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
benzyl alcohol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
2-methylphenol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
bis(2-chloroisopropyl) ether	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
hexachloroethane	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
N-nitroso-di-N-propylamine	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
4-methylphenol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
nitrobenzene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
isophorone	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
2-nitrophenol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
2,4-dimethylphenol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
bis(2-chloroethoxy)methane	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
2,4-dichlorophenol	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
1,2,4-trichlorobenzene	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
naphthalene	**0.12**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
benzoic acid	< 6	6	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
4-chloroaniline	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
hexachlorobutadiene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
4-chloro-3-methylphenol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
2-methylnaphthalene	**0.07**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
hexachlorocyclopentadiene	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
2,4,6-trichlorophenol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
2,4,5-trichlorophenol	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
2-chloronaphthalene	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
2-nitroaniline	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
acenaphthylene	**0.14**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
dimethylphthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
2,6-dinitrotoluene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
2,4-dinitrotoluene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
acenaphthene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
3-nitroaniline	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
2,4-dinitrophenol	< 6	6	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
dibenzofuran	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
4-nitrophenol	< 3	3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
fluorene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
diethyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-002
Sample ID: CA-SB-2 (4-6)
Matrix: Solid Percent Dry: 77.6% Results expressed on a dry weight basis.
Sampled: 5/8/15 12:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
4-nitroaniline	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
4,6-dinitro-2-methylphenol	< 3	3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
azobenzene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
N-nitrosodiphenylamine	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
4-bromophenyl phenyl ether	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
hexachlorobenzene	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
phenanthrene	**0.82**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
anthracene	**0.14**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
carbazole	< 0.3	0.3	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
di-n-butylphthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
fluoranthene	**1.3**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
benzidine	< 4	4	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
pyrene	**1.6**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
butyl benzyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
benzo(a)anthracene	**0.76**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
chrysene	**0.93**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
3,3'-dichlorobenzidine	< 4	4	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
bis(2-ethylhexyl)phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
di-n-octyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
benzo(b)fluoranthene	**0.93**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
benzo(k)fluoranthene	**0.64**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
benzo(a)pyrene	**0.72**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
indeno(1,2,3-cd)pyrene	**0.28**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
dibenzo(a,h)anthracene	**0.13**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
benzo(g,h,i)perylene	**0.25**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**62**	21-100	%	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
phenol-D5 SUR	**66**	10-102	%	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
2,4,6-tribromophenol SUR	**80**	10-123	%	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
nitrobenzene-D5 SUR	**58**	35-114	%	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
2-fluorobiphenyl SUR	**73**	43-116	%	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D
p-terphenyl-D14 SUR	**69**	33-141	%	1	AJD	5/12/15	7832	5/14/15	18:15	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-003
Sample ID: CA-SB-3 (2-4)
Matrix: Solid Percent Dry: 82.7% Results expressed on a dry weight basis.
Sampled: 5/8/15 11:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
aniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
phenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
2-chlorophenol	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
bis(2-chloroethyl)ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
1,3-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
1,4-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
1,2-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
benzyl alcohol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
2-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
bis(2-chloroisopropyl) ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
hexachloroethane	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
N-nitroso-di-N-propylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
4-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
nitrobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
isophorone	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
2-nitrophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
2,4-dimethylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
bis(2-chloroethoxy)methane	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
2,4-dichlorophenol	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
1,2,4-trichlorobenzene	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
naphthalene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
benzoic acid	< 6	6	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
4-chloroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
hexachlorobutadiene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
4-chloro-3-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
2-methylnaphthalene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
hexachlorocyclopentadiene	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
2,4,6-trichlorophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
2,4,5-trichlorophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
2-chloronaphthalene	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
2-nitroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
acenaphthylene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
dimethylphthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
2,6-dinitrotoluene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
2,4-dinitrotoluene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
acenaphthene	**0.13**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
3-nitroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
2,4-dinitrophenol	< 6	6	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
dibenzofuran	**0.16**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
4-nitrophenol	< 2	2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
fluorene	**0.15**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
diethyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-003
Sample ID: CA-SB-3 (2-4)
Matrix: Solid Percent Dry: 82.7% Results expressed on a dry weight basis.
Sampled: 5/8/15 11:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
4-nitroaniline	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
4,6-dinitro-2-methylphenol	< 2	2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
azobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
N-nitrosodiphenylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
4-bromophenyl phenyl ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
hexachlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
phenanthrene	**2.6** M	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
anthracene	**0.58**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
carbazole	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
di-n-butylphthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
fluoranthene	**2.4** M	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
benzidine	< 3	3	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
pyrene	**2.5**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
butyl benzyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
benzo(a)anthracene	**1.3**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
chrysene	**1.1**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
3,3'-dichlorobenzidine	< 3	3	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
bis(2-ethylhexyl)phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
di-n-octyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
benzo(b)fluoranthene	**0.83**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
benzo(k)fluoranthene	**0.74**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
benzo(a)pyrene	**0.88**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
indeno(1,2,3-cd)pyrene	**0.43**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
dibenzo(a,h)anthracene	**0.21**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
benzo(g,h,i)perylene	**0.43**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**72**	21-100	%	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
phenol-D5 SUR	**74**	10-102	%	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
2,4,6-tribromophenol SUR	**80**	10-123	%	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
nitrobenzene-D5 SUR	**64**	35-114	%	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
2-fluorobiphenyl SUR	**77**	43-116	%	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D
p-terphenyl-D14 SUR	**73**	33-141	%	1	AJD	5/12/15	7832	5/14/15	15:45	SW3546/8270D

M = The percent recovery for this compound was below the acceptance criteria. All other batch QC was within acceptance. Sample heterogeneity suspected.

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-004
Sample ID: CA-DUP
Matrix: Solid Percent Dry: 76.8% Results expressed on a dry weight basis.
Sampled: 5/8/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
aniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
phenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
2-chlorophenol	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
bis(2-chloroethyl)ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
1,3-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
1,4-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
1,2-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
benzyl alcohol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
2-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
bis(2-chloroisopropyl) ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
hexachloroethane	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
N-nitroso-di-N-propylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
4-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
nitrobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
isophorone	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
2-nitrophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
2,4-dimethylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
bis(2-chloroethoxy)methane	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
2,4-dichlorophenol	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
1,2,4-trichlorobenzene	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
naphthalene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
benzoic acid	< 6	6	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
4-chloroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
hexachlorobutadiene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
4-chloro-3-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
2-methylnaphthalene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
hexachlorocyclopentadiene	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
2,4,6-trichlorophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
2,4,5-trichlorophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
2-chloronaphthalene	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
2-nitroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
acenaphthylene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
dimethylphthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
2,6-dinitrotoluene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
2,4-dinitrotoluene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
acenaphthene	**0.09**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
3-nitroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
2,4-dinitrophenol	< 6	6	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
dibenzofuran	**0.09**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
4-nitrophenol	< 2	2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
fluorene	**0.08**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
diethyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-004
Sample ID: CA-DUP
Matrix: Solid Percent Dry: 76.8% Results expressed on a dry weight basis.
Sampled: 5/8/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
4-nitroaniline	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
4,6-dinitro-2-methylphenol	< 2	2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
azobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
N-nitrosodiphenylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
4-bromophenyl phenyl ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
hexachlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
phenanthrene	**1.5**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
anthracene	**0.23**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
carbazole	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
di-n-butylphthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
fluoranthene	**1.5**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
benzidine	< 4	4	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
pyrene	**1.6**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
butyl benzyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
benzo(a)anthracene	**0.80**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
chrysene	**0.80**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
3,3'-dichlorobenzidine	< 4	4	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
bis(2-ethylhexyl)phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
di-n-octyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
benzo(b)fluoranthene	**0.52**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
benzo(k)fluoranthene	**0.65**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
benzo(a)pyrene	**0.65**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
indeno(1,2,3-cd)pyrene	**0.29**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
dibenzo(a,h)anthracene	**0.14**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
benzo(g,h,i)perylene	**0.29**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**59**	21-100	%	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
phenol-D5 SUR	**62**	10-102	%	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
2,4,6-tribromophenol SUR	**73**	10-123	%	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
nitrobenzene-D5 SUR	**53**	35-114	%	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
2-fluorobiphenyl SUR	**67**	43-116	%	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D
p-terphenyl-D14 SUR	**67**	33-141	%	1	AJD	5/12/15	7832	5/14/15	16:23	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-005
Sample ID: CA-SB-3 (4-6)
Matrix: Solid Percent Dry: 84.3% Results expressed on a dry weight basis.
Sampled: 5/8/15 11:50

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
aniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
phenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
2-chlorophenol	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
bis(2-chloroethyl)ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
1,3-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
1,4-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
1,2-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
benzyl alcohol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
2-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
bis(2-chloroisopropyl) ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
hexachloroethane	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
N-nitroso-di-N-propylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
4-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
nitrobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
isophorone	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
2-nitrophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
2,4-dimethylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
bis(2-chloroethoxy)methane	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
2,4-dichlorophenol	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
1,2,4-trichlorobenzene	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
naphthalene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
benzoic acid	< 6	6	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
4-chloroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
hexachlorobutadiene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
4-chloro-3-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
2-methylnaphthalene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
hexachlorocyclopentadiene	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
2,4,6-trichlorophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
2,4,5-trichlorophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
2-chloronaphthalene	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
2-nitroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
acenaphthylene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
dimethylphthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
2,6-dinitrotoluene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
2,4-dinitrotoluene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
acenaphthene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
3-nitroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
2,4-dinitrophenol	< 6	6	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
dibenzofuran	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
4-nitrophenol	< 2	2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
fluorene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
diethyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-005
Sample ID: CA-SB-3 (4-6)
Matrix: Solid Percent Dry: 84.3% Results expressed on a dry weight basis.
Sampled: 5/8/15 11:50

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
4-nitroaniline	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
4,6-dinitro-2-methylphenol	< 2	2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
azobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
N-nitrosodiphenylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
4-bromophenyl phenyl ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
hexachlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
phenanthrene	**0.66**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
anthracene	**0.12**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
carbazole	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
di-n-butylphthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
fluoranthene	**0.56**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
benzidine	< 4	4	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
pyrene	**0.60**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
butyl benzyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
benzo(a)anthracene	**0.26**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
chrysene	**0.26**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
3,3'-dichlorobenzidine	< 4	4	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
bis(2-ethylhexyl)phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
di-n-octyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
benzo(b)fluoranthene	**0.19**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
benzo(k)fluoranthene	**0.17**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
benzo(a)pyrene	**0.20**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
indeno(1,2,3-cd)pyrene	**0.12**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
dibenzo(a,h)anthracene	**0.06**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
benzo(g,h,i)perylene	**0.13**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**61**	21-100	%	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
phenol-D5 SUR	**64**	10-102	%	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
2,4,6-tribromophenol SUR	**71**	10-123	%	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
nitrobenzene-D5 SUR	**56**	35-114	%	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
2-fluorobiphenyl SUR	**67**	43-116	%	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D
p-terphenyl-D14 SUR	**70**	33-141	%	1	AJD	5/12/15	7832	5/14/15	13:54	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-006
Sample ID: CA-SB-4 (0-2)
Matrix: Solid Percent Dry: 86.6% Results expressed on a dry weight basis.
Sampled: 5/8/15 11:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
aniline	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
phenol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
2-chlorophenol	< 2.9	2.9	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
bis(2-chloroethyl)ether	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
1,3-dichlorobenzene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
1,4-dichlorobenzene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
1,2-dichlorobenzene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
benzyl alcohol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
2-methylphenol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
bis(2-chloroisopropyl) ether	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
hexachloroethane	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
N-nitroso-di-N-propylamine	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
4-methylphenol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
nitrobenzene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
isophorone	< 2.9	2.9	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
2-nitrophenol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
2,4-dimethylphenol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
bis(2-chloroethoxy)methane	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
2,4-dichlorophenol	< 2.9	2.9	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
1,2,4-trichlorobenzene	< 2.9	2.9	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
naphthalene	**1.5**	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
benzoic acid	< 29	29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
4-chloroaniline	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
hexachlorobutadiene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
4-chloro-3-methylphenol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
2-methylnaphthalene	**0.61**	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
hexachlorocyclopentadiene	< 6	6	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
2,4,6-trichlorophenol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
2,4,5-trichlorophenol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
2-chloronaphthalene	< 2.9	2.9	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
2-nitroaniline	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
acenaphthylene	**0.77**	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
dimethylphthalate	< 2.9	2.9	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
2,6-dinitrotoluene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
2,4-dinitrotoluene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
acenaphthene	< 0.29	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
3-nitroaniline	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
2,4-dinitrophenol	< 29	29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
dibenzofuran	< 0.29	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
4-nitrophenol	< 11	11	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
fluorene	< 0.29	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
diethyl phthalate	< 2.9	2.9	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-006
Sample ID: CA-SB-4 (0-2)
Matrix: Solid Percent Dry: 86.6% Results expressed on a dry weight basis.
Sampled: 5/8/15 11:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 2.9	2.9	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
4-nitroaniline	< 2.9	2.9	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
4,6-dinitro-2-methylphenol	< 11	11	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
azobenzene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
N-nitrosodiphenylamine	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
4-bromophenyl phenyl ether	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
hexachlorobenzene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
pentachlorophenol	< 6	6	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
phenanthrene	**2.6**	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
anthracene	**0.45**	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
carbazole	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
di-n-butylphthalate	< 2.9	2.9	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
fluoranthene	**2.2**	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
benzidine	< 17	17	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
pyrene	**2.7**	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
butyl benzyl phthalate	< 2.9	2.9	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
benzo(a)anthracene	**1.2**	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
chrysene	**1.5**	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
3,3'-dichlorobenzidine	< 17	17	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
bis(2-ethylhexyl)phthalate	< 2.9	2.9	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
di-n-octyl phthalate	< 2.9	2.9	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
benzo(b)fluoranthene	**0.96**	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
benzo(k)fluoranthene	**0.77**	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
benzo(a)pyrene	**0.87**	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
indeno(1,2,3-cd)pyrene	**0.46**	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
dibenzo(a,h)anthracene	< 0.29	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
benzo(g,h,i)perylene	**0.55**	0.29	ug/g	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**53**	21-100	%	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
phenol-D5 SUR	**57**	10-102	%	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
2,4,6-tribromophenol SUR	**78**	10-123	%	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
nitrobenzene-D5 SUR	**57**	35-114	%	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
2-fluorobiphenyl SUR	**71**	43-116	%	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D
p-terphenyl-D14 SUR	**67**	33-141	%	5	AJD	5/12/15	7832	5/18/15	12:30	SW3546/8270D

Note: Dilution was required due to matrix interference, causing internal standard suppression.

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-007
Sample ID: CA-SB-4 (8-10)
Matrix: Solid Percent Dry: 79.1% Results expressed on a dry weight basis.
Sampled: 5/8/15 11:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
aniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
phenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
2-chlorophenol	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
bis(2-chloroethyl)ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
1,3-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
1,4-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
1,2-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
benzyl alcohol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
2-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
bis(2-chloroisopropyl) ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
hexachloroethane	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
N-nitroso-di-N-propylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
4-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
nitrobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
isophorone	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
2-nitrophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
2,4-dimethylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
bis(2-chloroethoxy)methane	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
2,4-dichlorophenol	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
1,2,4-trichlorobenzene	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
naphthalene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
benzoic acid	< 6	6	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
4-chloroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
hexachlorobutadiene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
4-chloro-3-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
2-methylnaphthalene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
hexachlorocyclopentadiene	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
2,4,6-trichlorophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
2,4,5-trichlorophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
2-chloronaphthalene	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
2-nitroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
acenaphthylene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
dimethylphthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
2,6-dinitrotoluene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
2,4-dinitrotoluene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
acenaphthene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
3-nitroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
2,4-dinitrophenol	< 6	6	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
dibenzofuran	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
4-nitrophenol	< 2	2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
fluorene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
diethyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-007
Sample ID: CA-SB-4 (8-10)
Matrix: Solid Percent Dry: 79.1% Results expressed on a dry weight basis.
Sampled: 5/8/15 11:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
4-nitroaniline	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
4,6-dinitro-2-methylphenol	< 2	2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
azobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
N-nitrosodiphenylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
4-bromophenyl phenyl ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
hexachlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
phenanthrene	**0.23**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
anthracene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
carbazole	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
di-n-butylphthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
fluoranthene	**0.34**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
benzidine	< 4	4	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
pyrene	**0.43**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
butyl benzyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
benzo(a)anthracene	**0.19**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
chrysene	**0.22**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
3,3'-dichlorobenzidine	< 4	4	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
bis(2-ethylhexyl)phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
di-n-octyl phthalate	< 0.6	0.6	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
benzo(b)fluoranthene	**0.19**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
benzo(k)fluoranthene	**0.15**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
benzo(a)pyrene	**0.16**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
indeno(1,2,3-cd)pyrene	**0.10**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
dibenzo(a,h)anthracene	< 0.06	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
benzo(g,h,i)perylene	**0.12**	0.06	ug/g	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**64**	21-100	%	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
phenol-D5 SUR	**64**	10-102	%	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
2,4,6-tribromophenol SUR	**82**	10-123	%	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
nitrobenzene-D5 SUR	**57**	35-114	%	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
2-fluorobiphenyl SUR	**69**	43-116	%	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D
p-terphenyl-D14 SUR	**70**	33-141	%	1	AJD	5/12/15	7832	5/14/15	14:31	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-008
Sample ID: CA-SB-5 (4-6)
Matrix: Solid Percent Dry: 92.7% Results expressed on a dry weight basis.
Sampled: 5/7/15 15:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
aniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
phenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
2-chlorophenol	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
bis(2-chloroethyl)ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
1,3-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
1,4-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
1,2-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
benzyl alcohol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
2-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
bis(2-chloroisopropyl) ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
hexachloroethane	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
N-nitroso-di-N-propylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
4-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
nitrobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
isophorone	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
2-nitrophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
2,4-dimethylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
bis(2-chloroethoxy)methane	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
2,4-dichlorophenol	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
1,2,4-trichlorobenzene	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
naphthalene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
benzoic acid	< 5	5	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
4-chloroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
hexachlorobutadiene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
4-chloro-3-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
hexachlorocyclopentadiene	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
2,4,6-trichlorophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
2,4,5-trichlorophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
2-chloronaphthalene	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
2-nitroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
dimethylphthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
2,6-dinitrotoluene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
2,4-dinitrotoluene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
3-nitroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
2,4-dinitrophenol	< 5	5	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
dibenzofuran	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
4-nitrophenol	< 2	2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
diethyl phthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-008
Sample ID: CA-SB-5 (4-6)
Matrix: Solid Percent Dry: 92.7% Results expressed on a dry weight basis.
Sampled: 5/7/15 15:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
4-nitroaniline	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
4,6-dinitro-2-methylphenol	< 2	2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
azobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
N-nitrosodiphenylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
4-bromophenyl phenyl ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
hexachlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
carbazole	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
di-n-butylphthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
benzidine	< 3	3	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
butyl benzyl phthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
3,3'-dichlorobenzidine	< 3	3	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
bis(2-ethylhexyl)phthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
di-n-octyl phthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**64**	21-100	%	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
phenol-D5 SUR	**66**	10-102	%	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
2,4,6-tribromophenol SUR	**83**	10-123	%	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
nitrobenzene-D5 SUR	**60**	35-114	%	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
2-fluorobiphenyl SUR	**73**	43-116	%	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D
p-terphenyl-D14 SUR	**74**	33-141	%	1	AJD	5/12/15	7832	5/14/15	15:08	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-009
Sample ID: CA-SB-6 (6-8)
Matrix: Solid Percent Dry: 90.6% Results expressed on a dry weight basis.
Sampled: 5/7/15 9:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
aniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
phenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
2-chlorophenol	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
bis(2-chloroethyl)ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
1,3-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
1,4-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
1,2-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
benzyl alcohol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
2-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
bis(2-chloroisopropyl) ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
hexachloroethane	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
N-nitroso-di-N-propylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
4-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
nitrobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
isophorone	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
2-nitrophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
2,4-dimethylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
bis(2-chloroethoxy)methane	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
2,4-dichlorophenol	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
1,2,4-trichlorobenzene	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
naphthalene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
benzoic acid	< 5	5	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
4-chloroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
hexachlorobutadiene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
4-chloro-3-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
hexachlorocyclopentadiene	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
2,4,6-trichlorophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
2,4,5-trichlorophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
2-chloronaphthalene	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
2-nitroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
dimethylphthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
2,6-dinitrotoluene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
2,4-dinitrotoluene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
3-nitroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
2,4-dinitrophenol	< 5	5	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
dibenzofuran	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
4-nitrophenol	< 2	2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
diethyl phthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-009
Sample ID: CA-SB-6 (6-8)
Matrix: Solid Percent Dry: 90.6% Results expressed on a dry weight basis.
Sampled: 5/7/15 9:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
4-nitroaniline	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
4,6-dinitro-2-methylphenol	< 2	2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
azobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
N-nitrosodiphenylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
4-bromophenyl phenyl ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
hexachlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
carbazole	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
di-n-butylphthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
benzidine	< 3	3	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
butyl benzyl phthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
3,3'-dichlorobenzidine	< 3	3	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
bis(2-ethylhexyl)phthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
di-n-octyl phthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**55**	21-100	%	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
phenol-D5 SUR	**55**	10-102	%	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
2,4,6-tribromophenol SUR	**65**	10-123	%	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
nitrobenzene-D5 SUR	**50**	35-114	%	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
2-fluorobiphenyl SUR	**59**	43-116	%	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D
p-terphenyl-D14 SUR	**60**	33-141	%	1	AJD	5/12/15	7832	5/14/15	12:39	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-010
Sample ID: CA-SB-7 (4-6)
Matrix: Solid Percent Dry: 89.4% Results expressed on a dry weight basis.
Sampled: 5/8/15 10:15

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
aniline	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
phenol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
2-chlorophenol	< 2.6	2.6	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
bis(2-chloroethyl)ether	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
1,3-dichlorobenzene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
1,4-dichlorobenzene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
1,2-dichlorobenzene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
benzyl alcohol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
2-methylphenol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
bis(2-chloroisopropyl) ether	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
hexachloroethane	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
N-nitroso-di-N-propylamine	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
4-methylphenol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
nitrobenzene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
isophorone	< 2.6	2.6	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
2-nitrophenol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
2,4-dimethylphenol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
bis(2-chloroethoxy)methane	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
2,4-dichlorophenol	< 2.6	2.6	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
1,2,4-trichlorobenzene	< 2.6	2.6	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
naphthalene	< 0.26	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
benzoic acid	< 26	26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
4-chloroaniline	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
hexachlorobutadiene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
4-chloro-3-methylphenol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
2-methylnaphthalene	< 0.26	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
hexachlorocyclopentadiene	< 5	5	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
2,4,6-trichlorophenol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
2,4,5-trichlorophenol	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
2-chloronaphthalene	< 2.6	2.6	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
2-nitroaniline	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
acenaphthylene	< 0.26	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
dimethylphthalate	< 2.6	2.6	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
2,6-dinitrotoluene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
2,4-dinitrotoluene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
acenaphthene	< 0.26	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
3-nitroaniline	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
2,4-dinitrophenol	< 26	26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
dibenzofuran	< 0.26	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
4-nitrophenol	< 11	11	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
fluorene	< 0.26	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
diethyl phthalate	< 2.6	2.6	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-010
Sample ID: CA-SB-7 (4-6)
Matrix: Solid Percent Dry: 89.4% Results expressed on a dry weight basis.
Sampled: 5/8/15 10:15

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 2.6	2.6	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
4-nitroaniline	< 2.6	2.6	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
4,6-dinitro-2-methylphenol	< 11	11	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
azobenzene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
N-nitrosodiphenylamine	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
4-bromophenyl phenyl ether	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
hexachlorobenzene	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
pentachlorophenol	< 5	5	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
phenanthrene	**1.4**	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
anthracene	**0.27**	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
carbazole	< 1.1	1.1	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
di-n-butylphthalate	< 2.6	2.6	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
fluoranthene	**2.0**	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
benzidine	< 16	16	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
pyrene	**2.3**	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
butyl benzyl phthalate	< 2.6	2.6	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
benzo(a)anthracene	**1.1**	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
chrysene	**1.2**	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
3,3'-dichlorobenzidine	< 16	16	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
bis(2-ethylhexyl)phthalate	< 2.6	2.6	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
di-n-octyl phthalate	< 2.6	2.6	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
benzo(b)fluoranthene	**1.9**	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
benzo(k)fluoranthene	**2.0**	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
benzo(a)pyrene	**0.94**	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
indeno(1,2,3-cd)pyrene	**0.37**	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
dibenzo(a,h)anthracene	< 0.26	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
benzo(g,h,i)perylene	**0.43**	0.26	ug/g	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**57**	21-100	%	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
phenol-D5 SUR	**62**	10-102	%	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
2,4,6-tribromophenol SUR	**76**	10-123	%	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
nitrobenzene-D5 SUR	**54**	35-114	%	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
2-fluorobiphenyl SUR	**65**	43-116	%	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D
p-terphenyl-D14 SUR	**64**	33-141	%	5	AJD	5/12/15	7832	5/14/15	17:00	SW3546/8270D

Note: Dilution was required due to sample matrix interference.

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-011
Sample ID: CA-SB-8 (6-8)
Matrix: Solid Percent Dry: 97.1% Results expressed on a dry weight basis.
Sampled: 5/7/15 10:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
aniline	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
phenol	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
2-chlorophenol	< 2.5	2.5	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
bis(2-chloroethyl)ether	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
1,3-dichlorobenzene	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
1,4-dichlorobenzene	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
1,2-dichlorobenzene	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
benzyl alcohol	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
2-methylphenol	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
bis(2-chloroisopropyl) ether	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
hexachloroethane	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
N-nitroso-di-N-propylamine	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
4-methylphenol	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
nitrobenzene	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
isophorone	< 2.5	2.5	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
2-nitrophenol	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
2,4-dimethylphenol	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
bis(2-chloroethoxy)methane	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
2,4-dichlorophenol	< 2.5	2.5	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
1,2,4-trichlorobenzene	< 2.5	2.5	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
naphthalene	< 0.25	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
benzoic acid	< 25	25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
4-chloroaniline	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
hexachlorobutadiene	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
4-chloro-3-methylphenol	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
2-methylnaphthalene	< 0.25	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
hexachlorocyclopentadiene	< 5	5	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
2,4,6-trichlorophenol	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
2,4,5-trichlorophenol	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
2-chloronaphthalene	< 2.5	2.5	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
2-nitroaniline	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
acenaphthylene	< 0.25	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
dimethylphthalate	< 2.5	2.5	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
2,6-dinitrotoluene	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
2,4-dinitrotoluene	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
acenaphthene	< 0.25	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
3-nitroaniline	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
2,4-dinitrophenol	< 25	25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
dibenzofuran	< 0.25	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
4-nitrophenol	< 10	10	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
fluorene	< 0.25	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
diethyl phthalate	< 2.5	2.5	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-011
Sample ID: CA-SB-8 (6-8)
Matrix: Solid Percent Dry: 97.1% Results expressed on a dry weight basis.
Sampled: 5/7/15 10:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 2.5	2.5	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
4-nitroaniline	< 2.5	2.5	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
4,6-dinitro-2-methylphenol	< 10	10	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
azobenzene	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
N-nitrosodiphenylamine	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
4-bromophenyl phenyl ether	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
hexachlorobenzene	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
pentachlorophenol	< 5	5	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
phenanthrene	**0.30**	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
anthracene	< 0.25	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
carbazole	< 1.0	1.0	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
di-n-butylphthalate	< 2.5	2.5	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
fluoranthene	**0.43**	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
benzidine	< 15	15	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
pyrene	**0.40**	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
butyl benzyl phthalate	< 2.5	2.5	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
benzo(a)anthracene	< 0.25	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
chrysene	< 0.25	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
3,3'-dichlorobenzidine	< 15	15	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
bis(2-ethylhexyl)phthalate	< 2.5	2.5	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
di-n-octyl phthalate	< 2.5	2.5	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
benzo(b)fluoranthene	< 0.25	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
benzo(k)fluoranthene	< 0.25	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
benzo(a)pyrene	< 0.25	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.25	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
dibenzo(a,h)anthracene	< 0.25	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
benzo(g,h,i)perylene	< 0.25	0.25	ug/g	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**54**	21-100	%	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
phenol-D5 SUR	**58**	10-102	%	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
2,4,6-tribromophenol SUR	**79**	10-123	%	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
nitrobenzene-D5 SUR	**55**	35-114	%	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
2-fluorobiphenyl SUR	**69**	43-116	%	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D
p-terphenyl-D14 SUR	**69**	33-141	%	5	AJD	5/12/15	7832	5/18/15	13:08	SW3546/8270D

Note: Dilution was required due to matrix interference, causing internal standard suppression.

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-012
Sample ID: CA-SB-9 (12-14/12.5)
Matrix: Solid Percent Dry: 90.2% Results expressed on a dry weight basis.
Sampled: 5/7/15 12:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
aniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
phenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
2-chlorophenol	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
bis(2-chloroethyl)ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
1,3-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
1,4-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
1,2-dichlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
benzyl alcohol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
2-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
bis(2-chloroisopropyl) ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
hexachloroethane	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
N-nitroso-di-N-propylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
4-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
nitrobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
isophorone	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
2-nitrophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
2,4-dimethylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
bis(2-chloroethoxy)methane	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
2,4-dichlorophenol	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
1,2,4-trichlorobenzene	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
naphthalene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
benzoic acid	< 5	5	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
4-chloroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
hexachlorobutadiene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
4-chloro-3-methylphenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
hexachlorocyclopentadiene	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
2,4,6-trichlorophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
2,4,5-trichlorophenol	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
2-chloronaphthalene	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
2-nitroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
dimethylphthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
2,6-dinitrotoluene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
2,4-dinitrotoluene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
3-nitroaniline	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
2,4-dinitrophenol	< 5	5	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
dibenzofuran	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
4-nitrophenol	< 2	2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
diethyl phthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-012
Sample ID: CA-SB-9 (12-14/12.5)
Matrix: Solid Percent Dry: 90.2% Results expressed on a dry weight basis.
Sampled: 5/7/15 12:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
4-nitroaniline	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
4,6-dinitro-2-methylphenol	< 2	2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
azobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
N-nitrosodiphenylamine	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
4-bromophenyl phenyl ether	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
hexachlorobenzene	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
carbazole	< 0.2	0.2	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
di-n-butylphthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
benzidine	< 3	3	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
butyl benzyl phthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
3,3'-dichlorobenzidine	< 3	3	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
bis(2-ethylhexyl)phthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
di-n-octyl phthalate	< 0.5	0.5	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**48**	21-100	%	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
phenol-D5 SUR	**49**	10-102	%	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
2,4,6-tribromophenol SUR	**60**	10-123	%	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
nitrobenzene-D5 SUR	**43**	35-114	%	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
2-fluorobiphenyl SUR	**52**	43-116	%	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D
p-terphenyl-D14 SUR	**55**	33-141	%	1	AJD	5/12/15	7832	5/14/15	13:17	SW3546/8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-013
Sample ID: CA-SS-1
Matrix: Solid Percent Dry: 96.8% Results expressed on a dry weight basis.
Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
2-methylnaphthalene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
acenaphthylene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
acenaphthene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
dibenzofuran	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
fluorene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
phenanthrene	**0.6**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
anthracene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
fluoranthene	**1.5**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
pyrene	**1.5**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
benzo(a)anthracene	**0.5**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
chrysene	**0.9**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
benzo(b)fluoranthene	**0.9**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
benzo(k)fluoranthene	**0.6**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
benzo(a)pyrene	**0.6**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
indeno(1,2,3-cd)pyrene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
dibenzo(a,h)anthracene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
benzo(g,h,i)perylene	**0.5**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	**95**	43-116	%	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D
o-terphenyl SUR	**104**	33-141	%	1	AJD	5/14/15	7838	5/19/15	13:30	SW3550C8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-014
Sample ID: CA-SS-2
Matrix: Solid Percent Dry: 89.9% Results expressed on a dry weight basis.
Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
2-methylnaphthalene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
acenaphthylene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
acenaphthene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
dibenzofuran	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
fluorene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
phenanthrene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
anthracene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
fluoranthene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
pyrene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
benzo(a)anthracene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
chrysene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
benzo(b)fluoranthene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
benzo(k)fluoranthene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
benzo(a)pyrene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
indeno(1,2,3-cd)pyrene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
dibenzo(a,h)anthracene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
benzo(g,h,i)perylene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	**85**	43-116	%	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D
o-terphenyl SUR	**86**	33-141	%	1	AJD	5/14/15	7838	5/19/15	14:08	SW3550C8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-015
Sample ID: CA-SS-3
Matrix: Solid Percent Dry: 91.3% Results expressed on a dry weight basis.
Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
2-methylnaphthalene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
acenaphthylene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
acenaphthene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
dibenzofuran	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
fluorene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
phenanthrene	**0.6**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
anthracene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
fluoranthene	**1.3**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
pyrene	**1.4**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
benzo(a)anthracene	**0.6**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
chrysene	**0.8**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
benzo(b)fluoranthene	**0.8**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
benzo(k)fluoranthene	**0.5**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
benzo(a)pyrene	**0.7**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
indeno(1,2,3-cd)pyrene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
dibenzo(a,h)anthracene	< 0.5	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
benzo(g,h,i)perylene	**0.5**	0.5	ug/g	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	**96**	43-116	%	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D
o-terphenyl SUR	**101**	33-141	%	1	AJD	5/14/15	7838	5/19/15	14:45	SW3550C8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-016
Sample ID: CA-SS-4
Matrix: Solid Percent Dry: 77.2% Results expressed on a dry weight basis.
Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.6	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
2-methylnaphthalene	< 0.6	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
acenaphthylene	< 0.6	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
acenaphthene	< 0.6	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
dibenzofuran	< 0.6	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
fluorene	< 0.6	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
phenanthrene	< 0.6	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
anthracene	< 0.6	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
fluoranthene	**1.2**	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
pyrene	**1.3**	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
benzo(a)anthracene	< 0.6	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
chrysene	**0.8**	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
benzo(b)fluoranthene	**0.8**	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
benzo(k)fluoranthene	< 0.6	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
benzo(a)pyrene	**0.7**	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
indeno(1,2,3-cd)pyrene	< 0.6	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
dibenzo(a,h)anthracene	< 0.6	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
benzo(g,h,i)perylene	< 0.6	0.6	ug/g	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	**41** *	43-116	%	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D
o-terphenyl SUR	**50**	33-141	%	1	AJD	5/14/15	7838	5/19/15	15:22	SW3550C8270D

**** This surrogate showed recovery outside the acceptance limits. Re-extraction produced similar concentrations.***

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-017
Sample ID: CA-SS-5
Matrix: Solid Percent Dry: 74.5% Results expressed on a dry weight basis.
Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.7	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
2-methylnaphthalene	< 0.7	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
acenaphthylene	< 0.7	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
acenaphthene	< 0.7	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
dibenzofuran	< 0.7	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
fluorene	< 0.7	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
phenanthrene	**3.1**	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
anthracene	< 0.7	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
fluoranthene	**7.2**	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
pyrene	**7.7**	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
benzo(a)anthracene	**3.2**	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
chrysene	**4.4**	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
benzo(b)fluoranthene	**3.7**	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
benzo(k)fluoranthene	**4.2**	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
benzo(a)pyrene	**3.7**	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
indeno(1,2,3-cd)pyrene	**2.1**	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
dibenzo(a,h)anthracene	**1.0**	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
benzo(g,h,i)perylene	**2.2**	0.7	ug/g	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	**95**	43-116	%	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D
o-terphenyl SUR	**90**	33-141	%	1	AJD	5/14/15	7838	5/20/15	14:40	SW3550C8270D

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-019
Sample ID: CA-SS-4 RE-EXTRACT
Matrix: Solid Percent Dry: 77.2% Results expressed on a dry weight basis.
Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.6	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
2-methylnaphthalene	< 0.6	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
acenaphthylene	< 0.6	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
acenaphthene	< 0.6	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
dibenzofuran	< 0.6	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
fluorene	< 0.6	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
phenanthrene	**0.7**	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
anthracene	< 0.6	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
fluoranthene	**1.8**	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
pyrene	**2.2**	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
benzo(a)anthracene	**1.0**	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
chrysene	**1.2**	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
benzo(b)fluoranthene	**1.5**	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
benzo(k)fluoranthene	**0.8**	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
benzo(a)pyrene	**1.3**	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
indeno(1,2,3-cd)pyrene	**0.8**	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
dibenzo(a,h)anthracene	< 0.6	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
benzo(g,h,i)perylene	**1.0**	0.6	ug/g	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	**73**	43-116	%	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D
o-terphenyl SUR	**71**	33-141	%	1	AJD	5/22/15	7975	5/27/15	23:35	SW3550C8270D

Note: Sample re-extraction beyond recommended holding time produced similar concentrations.

Project ID: Madeira 14001247

Job ID: 32937

Sample#: 32937-003

Sample ID: CA-SB-3 (2-4)

Matrix: Solid Percent Dry: 82.7% Results expressed on a dry weight basis.

Sampled: 5/8/15 11:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/13/15	21:51	SW3540C8082A
PCB-1221	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/13/15	21:51	SW3540C8082A
PCB-1232	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/13/15	21:51	SW3540C8082A
PCB-1242	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/13/15	21:51	SW3540C8082A
PCB-1248	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/13/15	21:51	SW3540C8082A
PCB-1254	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/13/15	21:51	SW3540C8082A
PCB-1260	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/13/15	21:51	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**103**	30-150	%	1	AM	5/12/15	7831	5/13/15	21:51	SW3540C8082A
decachlorobiphenyl SUR	**105**	30-150	%	1	AM	5/12/15	7831	5/13/15	21:51	SW3540C8082A

Sample#: 32937-004

Sample ID: CA-DUP

Matrix: Solid Percent Dry: 76.8% Results expressed on a dry weight basis.

Sampled: 5/8/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/13/15	22:22	SW3540C8082A
PCB-1221	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/13/15	22:22	SW3540C8082A
PCB-1232	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/13/15	22:22	SW3540C8082A
PCB-1242	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/13/15	22:22	SW3540C8082A
PCB-1248	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/13/15	22:22	SW3540C8082A
PCB-1254	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/13/15	22:22	SW3540C8082A
PCB-1260	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/13/15	22:22	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**108**	30-150	%	1	AM	5/12/15	7831	5/13/15	22:22	SW3540C8082A
decachlorobiphenyl SUR	**112**	30-150	%	1	AM	5/12/15	7831	5/13/15	22:22	SW3540C8082A

Project ID: Madeira 14001247

Job ID: 32937

Sample#: 32937-005

Sample ID: CA-SB-3 (4-6)

Matrix: Solid Percent Dry: 84.3% Results expressed on a dry weight basis.

Sampled: 5/8/15 11:50

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.1	0.1	ug/g	1	AM	5/12/15	7831	5/13/15	22:52	SW3540C8082A
PCB-1221	< 0.1	0.1	ug/g	1	AM	5/12/15	7831	5/13/15	22:52	SW3540C8082A
PCB-1232	< 0.1	0.1	ug/g	1	AM	5/12/15	7831	5/13/15	22:52	SW3540C8082A
PCB-1242	< 0.1	0.1	ug/g	1	AM	5/12/15	7831	5/13/15	22:52	SW3540C8082A
PCB-1248	< 0.1	0.1	ug/g	1	AM	5/12/15	7831	5/13/15	22:52	SW3540C8082A
PCB-1254	< 0.1	0.1	ug/g	1	AM	5/12/15	7831	5/13/15	22:52	SW3540C8082A
PCB-1260	< 0.1	0.1	ug/g	1	AM	5/12/15	7831	5/13/15	22:52	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**101**	30-150	%	1	AM	5/12/15	7831	5/13/15	22:52	SW3540C8082A
decachlorobiphenyl SUR	**108**	30-150	%	1	AM	5/12/15	7831	5/13/15	22:52	SW3540C8082A

Sample#: 32937-006

Sample ID: CA-SB-4 (0-2)

Matrix: Solid Percent Dry: 86.6% Results expressed on a dry weight basis.

Sampled: 5/8/15 11:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/19/15	1:03	SW3540C8082A
PCB-1221	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/19/15	1:03	SW3540C8082A
PCB-1232	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/19/15	1:03	SW3540C8082A
PCB-1242	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/19/15	1:03	SW3540C8082A
PCB-1248	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/19/15	1:03	SW3540C8082A
PCB-1254	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/19/15	1:03	SW3540C8082A
PCB-1260	< 0.2	0.2	ug/g	1	AM	5/12/15	7831	5/19/15	1:03	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**107**	30-150	%	1	AM	5/12/15	7831	5/19/15	1:03	SW3540C8082A
decachlorobiphenyl SUR	**80**	30-150	%	1	AM	5/12/15	7831	5/19/15	1:03	SW3540C8082A

Project ID: Madeira 14001247

Job ID: 32937

Sample#: 32937-007

Sample ID: CA-SB-4 (8-10)

Matrix: Solid Percent Dry: 79.1% Results expressed on a dry weight basis.

Sampled: 5/8/15 11:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	17:28	SW3540C8082A
PCB-1221	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	17:28	SW3540C8082A
PCB-1232	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	17:28	SW3540C8082A
PCB-1242	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	17:28	SW3540C8082A
PCB-1248	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	17:28	SW3540C8082A
PCB-1254	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	17:28	SW3540C8082A
PCB-1260	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	17:28	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**99**	30-150	%	1	AM	5/13/15	7839	5/14/15	17:28	SW3540C8082A
decachlorobiphenyl SUR	**99**	30-150	%	1	AM	5/13/15	7839	5/14/15	17:28	SW3540C8082A

Sample#: 32937-008

Sample ID: CA-SB-5 (4-6)

Matrix: Solid Percent Dry: 92.7% Results expressed on a dry weight basis.

Sampled: 5/7/15 15:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	17:59	SW3540C8082A
PCB-1221	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	17:59	SW3540C8082A
PCB-1232	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	17:59	SW3540C8082A
PCB-1242	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	17:59	SW3540C8082A
PCB-1248	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	17:59	SW3540C8082A
PCB-1254	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	17:59	SW3540C8082A
PCB-1260	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	17:59	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**91**	30-150	%	1	AM	5/13/15	7839	5/14/15	17:59	SW3540C8082A
decachlorobiphenyl SUR	**89**	30-150	%	1	AM	5/13/15	7839	5/14/15	17:59	SW3540C8082A

Project ID: Madeira 14001247

Job ID: 32937

Sample#: 32937-012

Sample ID: CA-SB-9 (12-14/12.5)

Matrix: Solid Percent Dry: 90.2% Results expressed on a dry weight basis.

Sampled: 5/7/15 12:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.1	0.1	ug/g	1	AM	5/13/15	7839	5/14/15	18:29	SW3540C8082A
PCB-1221	< 0.1	0.1	ug/g	1	AM	5/13/15	7839	5/14/15	18:29	SW3540C8082A
PCB-1232	< 0.1	0.1	ug/g	1	AM	5/13/15	7839	5/14/15	18:29	SW3540C8082A
PCB-1242	< 0.1	0.1	ug/g	1	AM	5/13/15	7839	5/14/15	18:29	SW3540C8082A
PCB-1248	< 0.1	0.1	ug/g	1	AM	5/13/15	7839	5/14/15	18:29	SW3540C8082A
PCB-1254	< 0.1	0.1	ug/g	1	AM	5/13/15	7839	5/14/15	18:29	SW3540C8082A
PCB-1260	< 0.1	0.1	ug/g	1	AM	5/13/15	7839	5/14/15	18:29	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**95**	30-150	%	1	AM	5/13/15	7839	5/14/15	18:29	SW3540C8082A
decachlorobiphenyl SUR	**96**	30-150	%	1	AM	5/13/15	7839	5/14/15	18:29	SW3540C8082A

Sample#: 32937-013

Sample ID: CA-SS-1

Matrix: Solid Percent Dry: 96.8% Results expressed on a dry weight basis.

Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.1	0.1	ug/g	1	AM	5/13/15	7839	5/14/15	19:00	SW3540C8082A
PCB-1221	< 0.1	0.1	ug/g	1	AM	5/13/15	7839	5/14/15	19:00	SW3540C8082A
PCB-1232	< 0.1	0.1	ug/g	1	AM	5/13/15	7839	5/14/15	19:00	SW3540C8082A
PCB-1242	< 0.1	0.1	ug/g	1	AM	5/13/15	7839	5/14/15	19:00	SW3540C8082A
PCB-1248	< 0.1	0.1	ug/g	1	AM	5/13/15	7839	5/14/15	19:00	SW3540C8082A
PCB-1254	< 0.1	0.1	ug/g	1	AM	5/13/15	7839	5/14/15	19:00	SW3540C8082A
PCB-1260	< 0.1	0.1	ug/g	1	AM	5/13/15	7839	5/14/15	19:00	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**101**	30-150	%	1	AM	5/13/15	7839	5/14/15	19:00	SW3540C8082A
decachlorobiphenyl SUR	**96**	30-150	%	1	AM	5/13/15	7839	5/14/15	19:00	SW3540C8082A

Project ID: Madeira 14001247

Job ID: 32937

Sample#: 32937-014

Sample ID: CA-SS-2

Matrix: Solid Percent Dry: 89.9% Results expressed on a dry weight basis.

Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
PCB-1016	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	19:30	SW3540C8082A
PCB-1221	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	19:30	SW3540C8082A
PCB-1232	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	19:30	SW3540C8082A
PCB-1242	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	19:30	SW3540C8082A
PCB-1248	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	19:30	SW3540C8082A
PCB-1254	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	19:30	SW3540C8082A
PCB-1260	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	19:30	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**96**	30-150	%	1	AM	5/13/15	7839	5/14/15	19:30	SW3540C8082A
decachlorobiphenyl SUR	**94**	30-150	%	1	AM	5/13/15	7839	5/14/15	19:30	SW3540C8082A

Sample#: 32937-015

Sample ID: CA-SS-3

Matrix: Solid Percent Dry: 91.3% Results expressed on a dry weight basis.

Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
PCB-1016	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	20:01	SW3540C8082A
PCB-1221	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	20:01	SW3540C8082A
PCB-1232	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	20:01	SW3540C8082A
PCB-1242	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	20:01	SW3540C8082A
PCB-1248	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	20:01	SW3540C8082A
PCB-1254	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	20:01	SW3540C8082A
PCB-1260	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	20:01	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**96**	30-150	%	1	AM	5/13/15	7839	5/14/15	20:01	SW3540C8082A
decachlorobiphenyl SUR	**92**	30-150	%	1	AM	5/13/15	7839	5/14/15	20:01	SW3540C8082A

Project ID: Madeira 14001247
Job ID: 32937

Sample#: 32937-016
Sample ID: CA-SS-4
Matrix: Solid Percent Dry: 77.2% Results expressed on a dry weight basis.
Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	20:31	SW3540C8082A
PCB-1221	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	20:31	SW3540C8082A
PCB-1232	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	20:31	SW3540C8082A
PCB-1242	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	20:31	SW3540C8082A
PCB-1248	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	20:31	SW3540C8082A
PCB-1254	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	20:31	SW3540C8082A
PCB-1260	< 0.2	0.2	ug/g	1	AM	5/13/15	7839	5/14/15	20:31	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**103**	30-150	%	1	AM	5/13/15	7839	5/14/15	20:31	SW3540C8082A
decachlorobiphenyl SUR	**97**	30-150	%	1	AM	5/13/15	7839	5/14/15	20:31	SW3540C8082A

Sample#: 32937-017
Sample ID: CA-SS-5
Matrix: Solid Percent Dry: 74.5% Results expressed on a dry weight basis.
Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.2	0.2	ug/g	1	AM	5/14/15	7839	5/19/15	1:34	SW3540C8082A
PCB-1221	< 0.2	0.2	ug/g	1	AM	5/14/15	7839	5/19/15	1:34	SW3540C8082A
PCB-1232	< 0.2	0.2	ug/g	1	AM	5/14/15	7839	5/19/15	1:34	SW3540C8082A
PCB-1242	< 0.2	0.2	ug/g	1	AM	5/14/15	7839	5/19/15	1:34	SW3540C8082A
PCB-1248	< 0.2	0.2	ug/g	1	AM	5/14/15	7839	5/19/15	1:34	SW3540C8082A
PCB-1254	< 0.2	0.2	ug/g	1	AM	5/14/15	7839	5/19/15	1:34	SW3540C8082A
PCB-1260	< 0.2	0.2	ug/g	1	AM	5/14/15	7839	5/19/15	1:34	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**89**	30-150	%	1	AM	5/14/15	7839	5/19/15	1:34	SW3540C8082A
decachlorobiphenyl SUR	**70**	30-150	%	1	AM	5/14/15	7839	5/19/15	1:34	SW3540C8082A

Project ID: Madeira 14001247
Job ID: 32937

Sample#: 32937-008
Sample ID: CA-SB-5 (4-6)
Matrix: Solid Percent Dry: 92.7% Results expressed on a dry weight basis.
Sampled: 5/7/15 15:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
TPH C10-C36	< 210	210	ug/g	1	AM	5/14/15	7837	5/15/15	16:46	SW3550C8100m
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	**93**	40-140	%	1	AM	5/14/15	7837	5/15/15	16:46	SW3550C8100m
o-terphenyl SUR	**90**	40-140	%	1	AM	5/14/15	7837	5/15/15	16:46	SW3550C8100m

Sample#: 32937-009
Sample ID: CA-SB-6 (6-8)
Matrix: Solid Percent Dry: 90.6% Results expressed on a dry weight basis.
Sampled: 5/7/15 9:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
TPH C10-C36	< 220	220	ug/g	1	AM	5/14/15	7837	5/15/15	17:04	SW3550C8100m
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	**102**	40-140	%	1	AM	5/14/15	7837	5/15/15	17:04	SW3550C8100m
o-terphenyl SUR	**100**	40-140	%	1	AM	5/14/15	7837	5/15/15	17:04	SW3550C8100m

Sample#: 32937-010
Sample ID: CA-SB-7 (4-6)
Matrix: Solid Percent Dry: 89.4% Results expressed on a dry weight basis.
Sampled: 5/8/15 10:15

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
TPH C10-C36	**410**	220	ug/g	1	AM	5/14/15	7837	5/15/15	17:23	SW3550C8100m
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	**99**	40-140	%	1	AM	5/14/15	7837	5/15/15	17:23	SW3550C8100m
o-terphenyl SUR	**85**	40-140	%	1	AM	5/14/15	7837	5/15/15	17:23	SW3550C8100m

Sample#: 32937-011
Sample ID: CA-SB-8 (6-8)
Matrix: Solid Percent Dry: 97.1% Results expressed on a dry weight basis.
Sampled: 5/7/15 10:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
TPH C10-C36	**440**	200	ug/g	1	AM	5/14/15	7837	5/15/15	18:00	SW3550C8100m
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	**103**	40-140	%	1	AM	5/14/15	7837	5/15/15	18:00	SW3550C8100m
o-terphenyl SUR	**87**	40-140	%	1	AM	5/14/15	7837	5/15/15	18:00	SW3550C8100m

Project ID: Madeira 14001247
Job ID: 32937
Sample#: 32937-012
Sample ID: CA-SB-9 (12-14/12.5)
Matrix: Solid Percent Dry: 90.2% Results expressed on a dry weight basis.
Sampled: 5/7/15 12:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
TPH C10-C36	< 210	210	ug/g	1	AM	5/14/15	7837	5/15/15	18:18	SW3550C8100m
Surrogate Recovery		**Limits**								
2-fluorobiphenyl SUR	**95**	40-140	%	1	AM	5/14/15	7837	5/15/15	18:18	SW3550C8100m
o-terphenyl SUR	**90**	40-140	%	1	AM	5/14/15	7837	5/15/15	18:18	SW3550C8100m

Project ID: Madeira 14001247

Job ID: 32937

Sample#: 32937-001

Sample ID: CA-SB-1 (6-8)

Matrix: Solid Percent Dry: 76.5% Results expressed on a dry weight basis.

Sampled: 5/8/15 13:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	**2.1**	1.1	ug/g	1	AC	5/13/15	7835	5/13/15	22:39	SW3051A6010C
Barium	**33**	6	ug/g	1	AC	5/13/15	7835	5/13/15	22:39	SW3051A6010C
Cadmium	**0.5**	0.5	ug/g	1	AC	5/13/15	7835	5/13/15	22:39	SW3051A6010C
Chromium	**29**	6	ug/g	1	AC	5/13/15	7835	5/13/15	22:39	SW3051A6010C
Lead	**190**	1.1	ug/g	1	AC	5/13/15	7835	5/13/15	22:39	SW3051A6010C
Mercury	**0.58**	0.24	ug/g	1	AC	5/15/15	7849	5/15/15	16:18	SW7471B
Selenium	< 6	6	ug/g	1	AC	5/13/15	7835	5/13/15	22:39	SW3051A6010C
Silver	< 0.8	0.8	ug/g	1	AC	5/13/15	7835	5/13/15	22:39	SW3051A6010C

Sample#: 32937-002

Sample ID: CA-SB-2 (4-6)

Matrix: Solid Percent Dry: 77.6% Results expressed on a dry weight basis.

Sampled: 5/8/15 12:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	**1.5**	1.2	ug/g	1	AC	5/13/15	7835	5/13/15	22:46	SW3051A6010C
Barium	**100**	6	ug/g	1	AC	5/13/15	7835	5/13/15	22:46	SW3051A6010C
Cadmium	< 0.5	0.5	ug/g	1	AC	5/13/15	7835	5/13/15	22:46	SW3051A6010C
Chromium	**16**	6	ug/g	1	AC	5/13/15	7835	5/13/15	22:46	SW3051A6010C
Lead	**100**	1.2	ug/g	1	AC	5/13/15	7835	5/13/15	22:46	SW3051A6010C
Mercury	< 0.22	0.22	ug/g	1	AC	5/15/15	7849	5/15/15	16:19	SW7471B
Selenium	< 6	6	ug/g	1	AC	5/13/15	7835	5/13/15	22:46	SW3051A6010C
Silver	< 0.9	0.9	ug/g	1	AC	5/13/15	7835	5/13/15	22:46	SW3051A6010C

Sample#: 32937-003

Sample ID: CA-SB-3 (2-4)

Matrix: Solid Percent Dry: 82.7% Results expressed on a dry weight basis.

Sampled: 5/8/15 11:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	**4.2**	1.2	ug/g	1	AC	5/13/15	7835	5/13/15	22:53	SW3051A6010C
Barium	**190**	6	ug/g	1	AC	5/13/15	7835	5/13/15	22:53	SW3051A6010C
Cadmium	< 0.5	0.5	ug/g	1	AC	5/13/15	7835	5/13/15	22:53	SW3051A6010C
Chromium	**18**	6	ug/g	1	AC	5/13/15	7835	5/13/15	22:53	SW3051A6010C
Lead	**870**	1.2	ug/g	1	AC	5/13/15	7835	5/13/15	22:53	SW3051A6010C
Mercury	< 0.21	0.21	ug/g	1	AC	5/15/15	7849	5/15/15	16:21	SW7471B
Selenium	< 6	6	ug/g	1	AC	5/13/15	7835	5/13/15	22:53	SW3051A6010C
Silver	< 0.8	0.8	ug/g	1	AC	5/13/15	7835	5/13/15	22:53	SW3051A6010C

Project ID: Madeira 14001247

Job ID: 32937

Sample#: 32937-004

Sample ID: CA-DUP

Matrix: Solid Percent Dry: 76.8% Results expressed on a dry weight basis.

Sampled: 5/8/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	**4.8**	1.3	ug/g	1	AC	5/13/15	7835	5/13/15	23:01	SW3051A6010C
Barium	**210**	7	ug/g	1	AC	5/13/15	7835	5/13/15	23:01	SW3051A6010C
Cadmium	< 0.5	0.5	ug/g	1	AC	5/13/15	7835	5/13/15	23:01	SW3051A6010C
Chromium	**19**	7	ug/g	1	AC	5/13/15	7835	5/13/15	23:01	SW3051A6010C
Lead	**950**	1.3	ug/g	1	AC	5/13/15	7835	5/13/15	23:01	SW3051A6010C
Mercury	< 0.20	0.20	ug/g	1	AC	5/15/15	7849	5/15/15	16:23	SW7471B
Selenium	< 7	7	ug/g	1	AC	5/13/15	7835	5/13/15	23:01	SW3051A6010C
Silver	< 0.9	0.9	ug/g	1	AC	5/13/15	7835	5/13/15	23:01	SW3051A6010C

Sample#: 32937-005

Sample ID: CA-SB-3 (4-6)

Matrix: Solid Percent Dry: 84.3% Results expressed on a dry weight basis.

Sampled: 5/8/15 11:50

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	**5.2**	1.2	ug/g	1	AC	5/13/15	7835	5/13/15	23:08	SW3051A6010C
Barium	**94**	6	ug/g	1	AC	5/13/15	7835	5/13/15	23:08	SW3051A6010C
Cadmium	< 0.5	0.5	ug/g	1	AC	5/13/15	7835	5/13/15	23:08	SW3051A6010C
Chromium	**14**	6	ug/g	1	AC	5/13/15	7835	5/13/15	23:08	SW3051A6010C
Lead	**320**	1.2	ug/g	1	AC	5/13/15	7835	5/13/15	23:08	SW3051A6010C
Mercury	< 0.20	0.20	ug/g	1	AC	5/15/15	7849	5/15/15	16:28	SW7471B
Selenium	< 6	6	ug/g	1	AC	5/13/15	7835	5/13/15	23:08	SW3051A6010C
Silver	< 0.8	0.8	ug/g	1	AC	5/13/15	7835	5/13/15	23:08	SW3051A6010C

Sample#: 32937-006

Sample ID: CA-SB-4 (0-2)

Matrix: Solid Percent Dry: 86.6% Results expressed on a dry weight basis.

Sampled: 5/8/15 11:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	**30**	1.2	ug/g	1	AC	5/13/15	7835	5/13/15	23:15	SW3051A6010C
Barium	**170**	6	ug/g	1	AC	5/13/15	7835	5/13/15	23:15	SW3051A6010C
Cadmium	**0.7**	0.5	ug/g	1	AC	5/13/15	7835	5/13/15	23:15	SW3051A6010C
Chromium	**16**	6	ug/g	1	AC	5/13/15	7835	5/13/15	23:15	SW3051A6010C
Lead	**230**	1.2	ug/g	1	AC	5/13/15	7835	5/13/15	23:15	SW3051A6010C
Mercury	< 0.21	0.21	ug/g	1	AC	5/15/15	7849	5/15/15	16:30	SW7471B
Selenium	< 6	6	ug/g	1	AC	5/13/15	7835	5/13/15	23:15	SW3051A6010C
Silver	< 0.8	0.8	ug/g	1	AC	5/13/15	7835	5/13/15	23:15	SW3051A6010C

Project ID: Madeira 14001247

Job ID: 32937

Sample#: 32937-007

Sample ID: CA-SB-4 (8-10)

Matrix: Solid Percent Dry: 79.1% Results expressed on a dry weight basis.

Sampled: 5/8/15 11:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	**2.2**	1.3	ug/g	1	AC	5/13/15	7835	5/13/15	23:22	SW3051A6010C
Barium	**19**	6	ug/g	1	AC	5/13/15	7835	5/13/15	23:22	SW3051A6010C
Cadmium	< 0.5	0.5	ug/g	1	AC	5/13/15	7835	5/13/15	23:22	SW3051A6010C
Chromium	**11**	6	ug/g	1	AC	5/13/15	7835	5/13/15	23:22	SW3051A6010C
Lead	**43**	1.3	ug/g	1	AC	5/13/15	7835	5/13/15	23:22	SW3051A6010C
Mercury	< 0.23	0.23	ug/g	1	AC	5/15/15	7849	5/15/15	16:32	SW7471B
Selenium	< 6	6	ug/g	1	AC	5/13/15	7835	5/13/15	23:22	SW3051A6010C
Silver	< 0.9	0.9	ug/g	1	AC	5/13/15	7835	5/13/15	23:22	SW3051A6010C

Sample#: 32937-008

Sample ID: CA-SB-5 (4-6)

Matrix: Solid Percent Dry: 92.7% Results expressed on a dry weight basis.

Sampled: 5/7/15 15:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	**1.7**	1.0	ug/g	1	AC	5/13/15	7835	5/13/15	23:29	SW3051A6010C
Barium	**15**	5	ug/g	1	AC	5/13/15	7835	5/13/15	23:29	SW3051A6010C
Cadmium	< 0.4	0.4	ug/g	1	AC	5/13/15	7835	5/13/15	23:29	SW3051A6010C
Chromium	< 5	5	ug/g	1	AC	5/13/15	7835	5/13/15	23:29	SW3051A6010C
Lead	**4.1**	1.0	ug/g	1	AC	5/13/15	7835	5/13/15	23:29	SW3051A6010C
Mercury	< 0.18	0.18	ug/g	1	AC	5/15/15	7849	5/15/15	16:34	SW7471B
Selenium	< 5	5	ug/g	1	AC	5/13/15	7835	5/13/15	23:29	SW3051A6010C
Silver	< 0.7	0.7	ug/g	1	AC	5/13/15	7835	5/13/15	23:29	SW3051A6010C

Sample#: 32937-012

Sample ID: CA-SB-9 (12-14/12.5)

Matrix: Solid Percent Dry: 90.2% Results expressed on a dry weight basis.

Sampled: 5/7/15 12:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	**4.3**	1.0	ug/g	1	AC	5/13/15	7835	5/13/15	23:36	SW3051A6010C
Barium	**20**	5	ug/g	1	AC	5/13/15	7835	5/13/15	23:36	SW3051A6010C
Cadmium	< 0.4	0.4	ug/g	1	AC	5/13/15	7835	5/13/15	23:36	SW3051A6010C
Chromium	**8**	5	ug/g	1	AC	5/13/15	7835	5/13/15	23:36	SW3051A6010C
Lead	**7.4**	1.0	ug/g	1	AC	5/13/15	7835	5/13/15	23:36	SW3051A6010C
Mercury	< 0.20	0.20	ug/g	1	AC	5/15/15	7849	5/15/15	16:35	SW7471B
Selenium	< 5	5	ug/g	1	AC	5/13/15	7835	5/13/15	23:36	SW3051A6010C
Silver	< 0.7	0.7	ug/g	1	AC	5/13/15	7835	5/13/15	23:36	SW3051A6010C

Project ID: Madeira 14001247

Job ID: 32937

Sample#: 32937-013

Sample ID: CA-SS-1

Matrix: Solid Percent Dry: 96.8% Results expressed on a dry weight basis.

Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	**1.8**	1.0	ug/g	1	AC	5/13/15	7835	5/14/15	0:05	SW3051A6010C
Barium	**9**	5	ug/g	1	AC	5/13/15	7835	5/14/15	0:05	SW3051A6010C
Cadmium	< 0.4	0.4	ug/g	1	AC	5/13/15	7835	5/14/15	0:05	SW3051A6010C
Chromium	< 5	5	ug/g	1	AC	5/13/15	7835	5/14/15	0:05	SW3051A6010C
Lead	**23**	1.0	ug/g	1	AC	5/13/15	7835	5/14/15	0:05	SW3051A6010C
Mercury	< 0.18	0.18	ug/g	1	AC	5/15/15	7849	5/15/15	16:39	SW7471B
Selenium	< 5	5	ug/g	1	AC	5/13/15	7835	5/14/15	0:05	SW3051A6010C
Silver	< 0.7	0.7	ug/g	1	AC	5/13/15	7835	5/14/15	0:05	SW3051A6010C

Sample#: 32937-014

Sample ID: CA-SS-2

Matrix: Solid Percent Dry: 89.9% Results expressed on a dry weight basis.

Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	**4.8**	1.1	ug/g	1	AC	5/15/15	7847	5/15/15	21:11	SW3051A6010C
Barium	**23**	5	ug/g	1	AC	5/15/15	7847	5/15/15	21:11	SW3051A6010C
Cadmium	< 0.4	0.4	ug/g	1	AC	5/15/15	7847	5/15/15	21:11	SW3051A6010C
Chromium	**7**	5	ug/g	1	AC	5/15/15	7847	5/15/15	21:11	SW3051A6010C
Lead	**14**	1.1	ug/g	1	AC	5/15/15	7847	5/15/15	21:11	SW3051A6010C
Mercury	< 0.19	0.19	ug/g	1	AC	5/15/15	7849	5/15/15	16:59	SW7471B
Selenium	< 5	5	ug/g	1	AC	5/15/15	7847	5/15/15	21:11	SW3051A6010C
Silver	< 0.8	0.8	ug/g	1	AC	5/15/15	7847	5/15/15	21:11	SW3051A6010C

Sample#: 32937-015

Sample ID: CA-SS-3

Matrix: Solid Percent Dry: 91.3% Results expressed on a dry weight basis.

Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	**4.9**	1.0	ug/g	1	AC	5/15/15	7847	5/15/15	20:00	SW3051A6010C
Barium	**33**	5	ug/g	1	AC	5/15/15	7847	5/15/15	20:00	SW3051A6010C
Cadmium	< 0.4	0.4	ug/g	1	AC	5/15/15	7847	5/15/15	20:00	SW3051A6010C
Chromium	**11**	5	ug/g	1	AC	5/15/15	7847	5/15/15	20:00	SW3051A6010C
Lead	**58**	1.0	ug/g	1	AC	5/15/15	7847	5/15/15	20:00	SW3051A6010C
Mercury	< 0.17	0.17	ug/g	1	AC	5/15/15	7849	5/15/15	16:41	SW7471B
Selenium	< 5	5	ug/g	1	AC	5/15/15	7847	5/15/15	20:00	SW3051A6010C
Silver	< 0.7	0.7	ug/g	1	AC	5/15/15	7847	5/15/15	20:00	SW3051A6010C

Project ID: Madeira 14001247

Job ID: 32937

Sample#: 32937-016

Sample ID: CA-SS-4

Matrix: Solid Percent Dry: 77.2% Results expressed on a dry weight basis.

Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	**5.6**	1.1	ug/g	1	AC	5/15/15	7847	5/15/15	20:07	SW3051A6010C
Barium	**33**	5	ug/g	1	AC	5/15/15	7847	5/15/15	20:07	SW3051A6010C
Cadmium	< 0.4	0.4	ug/g	1	AC	5/15/15	7847	5/15/15	20:07	SW3051A6010C
Chromium	**19**	5	ug/g	1	AC	5/15/15	7847	5/15/15	20:07	SW3051A6010C
Lead	**99**	1.1	ug/g	1	AC	5/15/15	7847	5/15/15	20:07	SW3051A6010C
Mercury	< 0.21	0.21	ug/g	1	AC	5/15/15	7849	5/15/15	16:43	SW7471B
Selenium	< 5	5	ug/g	1	AC	5/15/15	7847	5/15/15	20:07	SW3051A6010C
Silver	< 0.8	0.8	ug/g	1	AC	5/15/15	7847	5/15/15	20:07	SW3051A6010C

Sample#: 32937-017

Sample ID: CA-SS-5

Matrix: Solid Percent Dry: 74.5% Results expressed on a dry weight basis.

Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	**5.8**	1.3	ug/g	1	AC	5/15/15	7847	5/15/15	20:14	SW3051A6010C
Barium	**69**	7	ug/g	1	AC	5/15/15	7847	5/15/15	20:14	SW3051A6010C
Cadmium	**0.5**	0.5	ug/g	1	AC	5/15/15	7847	5/15/15	20:14	SW3051A6010C
Chromium	**21**	7	ug/g	1	AC	5/15/15	7847	5/15/15	20:14	SW3051A6010C
Lead	**140**	1.3	ug/g	1	AC	5/15/15	7847	5/15/15	20:14	SW3051A6010C
Mercury	< 0.24	0.24	ug/g	1	AC	5/15/15	7849	5/15/15	16:44	SW7471B
Selenium	< 7	7	ug/g	1	AC	5/15/15	7847	5/15/15	20:14	SW3051A6010C
Silver	< 0.9	0.9	ug/g	1	AC	5/15/15	7847	5/15/15	20:14	SW3051A6010C

Quality Control Report

124 Heritage Avenue Unit 16
Portsmouth, NH 03801
www.absoluteresourceassociates.com

Case Narrative
Lab # 32937

Sample Receiving and Chain of Custody Discrepancies

Samples were received in acceptable condition, at 2 degrees C, on ice, and in accordance with sample handling, preservation and integrity guidelines.

Calibration

No exceptions noted.

Method Blank

No exceptions noted.

Surrogate Recoveries

PAH: Sample 32937-016 did not meet the acceptance criteria for one of the extraction surrogates. The sample was re-extracted and the detected concentrations were similar. Both sets of results are included in the report.

Laboratory Control Sample Results

VOC: The MLCS/D7822 did not meet the acceptance criteria for bromomethane. Since <10% of the compounds were outside of the acceptance criteria, reanalysis is not required.
SVOC: The LCS7832 did not meet the acceptance criteria for hexachlorocyclopentadiene. Since <10% of the compounds were outside of the acceptance criteria, reanalysis is not required.

Matrix Spike/Matrix Spike Duplicate/Duplicate Results

SVOC: The matrix spike for 32937-003 did not meet the acceptance criteria for hexachlorocyclopentadiene, phenanthrene, and fluoranthene. Matrix interference suspected.

Other

SVOC: Due to internal standard suppression caused by matrix interference, the ABN analysis required a dilution for the following samples: 32937-006, -010, and -011.
Reporting Limits: Dilutions performed during the analysis are noted on the result pages.

No other exceptions noted.

- QC Report -

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits	RPD	RPD Limit
SW5035A8260C	MB7822	dichlorodifluoromethane		<	0.1	ug/g					
		chloromethane		<	0.1	ug/g					
		vinyl chloride		<	0.1	ug/g					
		bromomethane		<	0.2	ug/g					
		chloroethane		<	0.1	ug/g					
		trichlorofluoromethane		<	0.1	ug/g					
		diethyl ether		<	0.5	ug/g					
		acetone		<	2.5	ug/g					
		1,1-dichloroethene		<	0.1	ug/g					
		methylene chloride		<	0.2	ug/g					
		carbon disulfide		<	0.1	ug/g					
		methyl t-butyl ether (MTBE)		<	0.1	ug/g					
		trans-1,2-dichloroethene		<	0.1	ug/g					
		isopropyl ether (DIPE)		<	0.1	ug/g					
		ethyl t-butyl ether (ETBE)		<	0.1	ug/g					
		1,1-dichloroethane		<	0.1	ug/g					
		t-butanol (TBA)		<	2.5	ug/g					
		2-butanone (MEK)		<	0.5	ug/g					
		2,2-dichloropropane		<	0.1	ug/g					
		cis-1,2-dichloroethene		<	0.1	ug/g					
		chloroform		<	0.1	ug/g					
		bromochloromethane		<	0.1	ug/g					
		tetrahydrofuran (THF)		<	0.5	ug/g					
		1,1,1-trichloroethane		<	0.1	ug/g					
		1,1-dichloropropene		<	0.1	ug/g					
		t-amyl-methyl ether (TAME)		<	0.1	ug/g					
		carbon tetrachloride		<	0.1	ug/g					
		1,2-dichloroethane		<	0.1	ug/g					
		benzene		<	0.1	ug/g					
		trichloroethene		<	0.1	ug/g					
		1,2-dichloropropane		<	0.1	ug/g					
		bromodichloromethane		<	0.1	ug/g					
		1,4-dioxane		<	2.5	ug/g					
		dibromomethane		<	0.1	ug/g					
		4-methyl-2-pentanone (MIBK)		<	0.5	ug/g					
		cis-1,3-dichloropropene		<	0.1	ug/g					
		toluene		<	0.1	ug/g					
		trans-1,3-dichloropropene		<	0.1	ug/g					
		2-hexanone		<	0.5	ug/g					
		1,1,2-trichloroethane		<	0.1	ug/g					
		1,3-dichloropropane		<	0.1	ug/g					
		tetrachloroethene		<	0.1	ug/g					
		dibromochloromethane		<	0.1	ug/g					
		1,2-dibromoethane (EDB)		<	0.1	ug/g					
		chlorobenzene		<	0.1	ug/g					
		1,1,1,2-tetrachloroethane		<	0.1	ug/g					
		ethylbenzene		<	0.1	ug/g					
		m&p-xylenes		<	0.1	ug/g					
		o-xylene		<	0.1	ug/g					
		styrene		<	0.1	ug/g					

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW5035A8260C	MB7822	bromoform		<	0.1	ug/g						
		isopropylbenzene		<	0.1	ug/g						
		1,1,2,2-tetrachloroethane		<	0.1	ug/g						
		1,2,3-trichloropropane		<	0.1	ug/g						
		n-propylbenzene		<	0.1	ug/g						
		bromobenzene		<	0.1	ug/g						
		1,3,5-trimethylbenzene		<	0.1	ug/g						
		2-chlorotoluene		<	0.1	ug/g						
		4-chlorotoluene		<	0.1	ug/g						
		tert-butylbenzene		<	0.1	ug/g						
		1,2,4-trimethylbenzene		<	0.1	ug/g						
		sec-butylbenzene		<	0.1	ug/g						
		1,3-dichlorobenzene		<	0.1	ug/g						
		4-isopropyltoluene		<	0.1	ug/g						
		1,4-dichlorobenzene		<	0.1	ug/g						
		1,2-dichlorobenzene		<	0.1	ug/g						
		n-butylbenzene		<	0.1	ug/g						
		1,2-dibromo-3-chloropropane (DBCP)		<	0.1	ug/g						
		1,2,4-trichlorobenzene		<	0.1	ug/g						
		1,3,5-trichlorobenzene		<	0.1	ug/g						
		hexachlorobutadiene		<	0.1	ug/g						
		naphthalene		<	0.2	ug/g						
		1,2,3-trichlorobenzene		<	0.1	ug/g						
		dibromofluoromethane SUR			96	%			78	114		
		toluene-D8 SUR			104	%			88	110		
		4-bromofluorobenzene SUR			103	%			86	115		
		a,a,a-trifluorotoluene SUR			107	%			70	130		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R		Limits		RPD	RPD Limit
SW5035A8260C	MLCS7822	dichlorodifluoromethane			1.0	ug/g	1	103		70	130		
		chloromethane			0.9	ug/g	1	93		70	130		
		vinyl chloride			1.1	ug/g	1	112		70	130		
		bromomethane			0.5	ug/g	1	51	*	70	130		
		chloroethane			1.1	ug/g	1	111		70	130		
		trichlorofluoromethane			1.1	ug/g	1	107		70	130		
		diethyl ether			1.2	ug/g	1	117		70	130		
		acetone		<	2.5	ug/g	1	130					
		1,1-dichloroethene			1.0	ug/g	1	96		70	130		
		methylene chloride			1.1	ug/g	1	114		70	130		
		carbon disulfide			0.9	ug/g	1	91		70	130		
		methyl t-butyl ether (MTBE)			1.1	ug/g	1	109		70	130		
		trans-1,2-dichloroethene			1.0	ug/g	1	101		70	130		
		isopropyl ether (DIPE)			1.0	ug/g	1	104		70	130		
		ethyl t-butyl ether (ETBE)			1.1	ug/g	1	106		70	130		
		1,1-dichloroethane			1.0	ug/g	1	102		70	130		
		t-butanol (TBA)			5.7	ug/g	5	115		70	130		
		2-butanone (MEK)			1.2	ug/g	1	123		70	130		
		2,2-dichloropropane			0.9	ug/g	1	93		70	130		
		cis-1,2-dichloroethene			1.1	ug/g	1	107		70	130		
		chloroform			1.1	ug/g	1	110		70	130		
		bromochloromethane			1.0	ug/g	1	101		70	130		
		tetrahydrofuran (THF)			1.2	ug/g	1	117		70	130		
		1,1,1-trichloroethane			1.1	ug/g	1	107		70	130		
		1,1-dichloropropene			1.0	ug/g	1	103		70	130		
		t-amyl-methyl ether (TAME)			1.1	ug/g	1	109		70	130		
		carbon tetrachloride			1.0	ug/g	1	102		70	130		
		1,2-dichloroethane			1.2	ug/g	1	116		70	130		
		benzene			1.1	ug/g	1	109		70	130		
		trichloroethene			1.1	ug/g	1	108		70	130		
		1,2-dichloropropane			1.1	ug/g	1	107		70	130		
		bromodichloromethane			1.0	ug/g	1	104		70	130		
		1,4-dioxane		<	2.5	ug/g	2	115		70	130		
		dibromomethane			1.1	ug/g	1	109		70	130		
		4-methyl-2-pentanone (MIBK)			1.2	ug/g	1	117		70	130		
		cis-1,3-dichloropropene			1.1	ug/g	1	108		70	130		
		toluene			1.1	ug/g	1	113		70	130		
		trans-1,3-dichloropropene			1.0	ug/g	1	103		70	130		
		2-hexanone			1.2	ug/g	1	120		70	130		
		1,1,2-trichloroethane			1.2	ug/g	1	116		70	130		
		1,3-dichloropropane			1.0	ug/g	1	105		70	130		
		tetrachloroethene			1.0	ug/g	1	95		70	130		
		dibromochloromethane			0.9	ug/g	1	89		70	130		
		1,2-dibromoethane (EDB)			1.0	ug/g	1	98		70	130		
		chlorobenzene			1.1	ug/g	1	106		70	130		
		1,1,1,2-tetrachloroethane			1.0	ug/g	1	97		70	130		
		ethylbenzene			1.0	ug/g	1	104		70	130		
		m&p-xylenes			2.1	ug/g	2	105		70	130		
		o-xylene			1.1	ug/g	1	106		70	130		
		styrene			1.1	ug/g	1	109		70	130		
		bromoform			1.0	ug/g	1	95		70	130		

Method	QC ID	Parameter	Associated Sample	Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW5035A8260C	MLCS7822	isopropylbenzene		1.1	ug/g	1	110	70	130		
		1,1,2,2-tetrachloroethane		1.0	ug/g	1	99	70	130		
		1,2,3-trichloropropane		1.0	ug/g	1	103	70	130		
		n-propylbenzene		1.0	ug/g	1	101	70	130		
		bromobenzene		1.0	ug/g	1	99	70	130		
		1,3,5-trimethylbenzene		1.0	ug/g	1	99	70	130		
		2-chlorotoluene		1.0	ug/g	1	100	70	130		
		4-chlorotoluene		1.0	ug/g	1	97	70	130		
		tert-butylbenzene		1.0	ug/g	1	104	70	130		
		1,2,4-trimethylbenzene		1.0	ug/g	1	99	70	130		
		sec-butylbenzene		1.0	ug/g	1	101	70	130		
		1,3-dichlorobenzene		1.0	ug/g	1	100	70	130		
		4-isopropyltoluene		1.0	ug/g	1	101	70	130		
		1,4-dichlorobenzene		1.0	ug/g	1	102	70	130		
		1,2-dichlorobenzene		1.0	ug/g	1	104	70	130		
		n-butylbenzene		1.0	ug/g	1	101	70	130		
		1,2-dibromo-3-chloropropane (DBCP)		0.9	ug/g	1	89	70	130		
		1,2,4-trichlorobenzene		1.1	ug/g	1	106	70	130		
		1,3,5-trichlorobenzene		1.0	ug/g	1	101	70	130		
		hexachlorobutadiene		1.1	ug/g	1	105	70	130		
		naphthalene		1.0	ug/g	1	103	70	130		
		1,2,3-trichlorobenzene		1.0	ug/g	1	103	70	130		
		dibromofluoromethane SUR		103	%			78	114		
		toluene-D8 SUR		105	%			88	110		
		4-bromofluorobenzene SUR		107	%			86	115		
		a,a,a-trifluorotoluene SUR		114	%			70	130		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R		Limits		RPD	RPD Limit
SW5035A8260C	MLCSD7822	dichlorodifluoromethane			1.0	ug/g	1	99		70	130	5	30
		chloromethane			0.9	ug/g	1	92		70	130	1	30
		vinyl chloride			1.1	ug/g	1	109		70	130	3	30
		bromomethane			0.6	ug/g	1	57	*	70	130	12	30
		chloroethane			1.1	ug/g	1	110		70	130	1	30
		trichlorofluoromethane			1.1	ug/g	1	105		70	130	1	30
		diethyl ether			1.1	ug/g	1	115		70	130	2	30
		acetone		<	2.5	ug/g	1	137				5	30
		1,1-dichloroethene			0.9	ug/g	1	92		70	130	4	30
		methylene chloride			1.1	ug/g	1	111		70	130	3	30
		carbon disulfide			0.9	ug/g	1	91		70	130	1	30
		methyl t-butyl ether (MTBE)			1.1	ug/g	1	108		70	130	0	30
		trans-1,2-dichloroethene			1.0	ug/g	1	98		70	130	3	30
		isopropyl ether (DIPE)			1.1	ug/g	1	106		70	130	2	30
		ethyl t-butyl ether (ETBE)			1.1	ug/g	1	105		70	130	1	30
		1,1-dichloroethane			1.0	ug/g	1	100		70	130	2	30
		t-butanol (TBA)			5.8	ug/g	5	116		70	130	2	30
		2-butanone (MEK)			1.3	ug/g	1	126		70	130	3	30
		2,2-dichloropropane			0.9	ug/g	1	90		70	130	3	30
		cis-1,2-dichloroethene			1.0	ug/g	1	105		70	130	2	30
		chloroform			1.1	ug/g	1	108		70	130	2	30
		bromochloromethane			1.0	ug/g	1	98		70	130	3	30
		tetrahydrofuran (THF)			1.2	ug/g	1	115		70	130	2	30
		1,1,1-trichloroethane			1.1	ug/g	1	107		70	130	1	30
		1,1-dichloropropene			1.0	ug/g	1	100		70	130	3	30
		t-amyl-methyl ether (TAME)			1.1	ug/g	1	110		70	130	0	30
		carbon tetrachloride			1.0	ug/g	1	101		70	130	1	30
		1,2-dichloroethane			1.1	ug/g	1	111		70	130	4	30
		benzene			1.1	ug/g	1	106		70	130	3	30
		trichloroethene			1.0	ug/g	1	105		70	130	4	30
		1,2-dichloropropane			1.0	ug/g	1	105		70	130	2	30
		bromodichloromethane			1.0	ug/g	1	103		70	130	1	30
		1,4-dioxane		<	2.5	ug/g	2	112		70	130	2	30
		dibromomethane			1.1	ug/g	1	107		70	130	2	30
		4-methyl-2-pentanone (MIBK)			1.2	ug/g	1	116		70	130	1	30
		cis-1,3-dichloropropene			1.0	ug/g	1	105		70	130	3	30
		toluene			1.1	ug/g	1	111		70	130	2	30
		trans-1,3-dichloropropene			1.0	ug/g	1	103		70	130	0	30
		2-hexanone			1.2	ug/g	1	120		70	130	0	30
		1,1,2-trichloroethane			1.1	ug/g	1	113		70	130	3	30
		1,3-dichloropropane			1.1	ug/g	1	106		70	130	1	30
		tetrachloroethene			1.0	ug/g	1	98		70	130	3	30
		dibromochloromethane			0.9	ug/g	1	91		70	130	2	30
		1,2-dibromoethane (EDB)			1.0	ug/g	1	103		70	130	4	30
		chlorobenzene			1.1	ug/g	1	106		70	130	0	30
		1,1,1,2-tetrachloroethane			1.0	ug/g	1	98		70	130	1	30
		ethylbenzene			1.1	ug/g	1	105		70	130	1	30
		m&p-xylenes			2.1	ug/g	2	107		70	130	2	30
		o-xylene			1.1	ug/g	1	108		70	130	1	30
		styrene			1.1	ug/g	1	111		70	130	2	30
		bromoform			0.9	ug/g	1	95		70	130	0	30

Method	QC ID	Parameter	Associated Sample	Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW5035A8260C	MLCSD7822	isopropylbenzene		1.1	ug/g	1	109	70	130	1	30
		1,1,2,2-tetrachloroethane		1.0	ug/g	1	95	70	130	3	30
		1,2,3-trichloropropane		1.0	ug/g	1	99	70	130	4	30
		n-propylbenzene		1.0	ug/g	1	99	70	130	2	30
		bromobenzene		1.0	ug/g	1	97	70	130	3	30
		1,3,5-trimethylbenzene		1.0	ug/g	1	97	70	130	2	30
		2-chlorotoluene		1.0	ug/g	1	98	70	130	3	30
		4-chlorotoluene		0.9	ug/g	1	95	70	130	3	30
		tert-butylbenzene		1.0	ug/g	1	103	70	130	1	30
		1,2,4-trimethylbenzene		1.0	ug/g	1	98	70	130	1	30
		sec-butylbenzene		1.0	ug/g	1	99	70	130	2	30
		1,3-dichlorobenzene		1.0	ug/g	1	99	70	130	1	30
		4-isopropyltoluene		1.0	ug/g	1	100	70	130	2	30
		1,4-dichlorobenzene		1.0	ug/g	1	101	70	130	1	30
		1,2-dichlorobenzene		1.0	ug/g	1	100	70	130	4	30
		n-butylbenzene		1.0	ug/g	1	100	70	130	1	30
		1,2-dibromo-3-chloropropane (DBCP)		0.9	ug/g	1	88	70	130	1	30
		1,2,4-trichlorobenzene		1.0	ug/g	1	103	70	130	3	30
		1,3,5-trichlorobenzene		1.0	ug/g	1	103	70	130	2	30
		hexachlorobutadiene		1.0	ug/g	1	101	70	130	5	30
		naphthalene		1.0	ug/g	1	103	70	130	0	30
		1,2,3-trichlorobenzene		1.0	ug/g	1	103	70	130	0	30
		dibromofluoromethane SUR		102	%			78	114		
		toluene-D8 SUR		104	%			88	110		
		4-bromofluorobenzene SUR		107	%			86	115		
		a,a,a-trifluorotoluene SUR		112	%			70	130		

- QC Report -

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW3540C8082A	BLK7831	PCB-1016		<	0.1	ug/g						
		PCB-1221		<	0.1	ug/g						
		PCB-1232		<	0.1	ug/g						
		PCB-1242		<	0.1	ug/g						
		PCB-1248		<	0.1	ug/g						
		PCB-1254		<	0.1	ug/g						
		PCB-1260		<	0.1	ug/g						
		tetrachloro-m-xylene SUR			93	%			30	150		
		decachlorobiphenyl SUR			100	%			30	150		
SW3540C8082A	LCS7831	PCB-1016			2.4	ug/g	2	122	40	140		
		PCB-1221		<	0.1	ug/g						
		PCB-1232		<	0.1	ug/g						
		PCB-1242		<	0.1	ug/g						
		PCB-1248		<	0.1	ug/g						
		PCB-1254		<	0.1	ug/g						
		PCB-1260			2.4	ug/g	2	121	40	140		
		tetrachloro-m-xylene SUR			102	%			30	150		
		decachlorobiphenyl SUR			114	%			30	150		
SW3540C8082A	LCSD7831	PCB-1016			2.4	ug/g	2	121	40	140	1	30
		PCB-1221		<	0.1	ug/g						
		PCB-1232		<	0.1	ug/g						
		PCB-1242		<	0.1	ug/g						
		PCB-1248		<	0.1	ug/g						
		PCB-1254		<	0.1	ug/g						
		PCB-1260			2.5	ug/g	2	126	40	140	4	30
		tetrachloro-m-xylene SUR			91	%			30	150		
		decachlorobiphenyl SUR			113	%			30	150		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW3540C8082A	BLK7839	PCB-1016		<	0.1	ug/g						
		PCB-1221		<	0.1	ug/g						
		PCB-1232		<	0.1	ug/g						
		PCB-1242		<	0.1	ug/g						
		PCB-1248		<	0.1	ug/g						
		PCB-1254		<	0.1	ug/g						
		PCB-1260		<	0.1	ug/g						
		tetrachloro-m-xylene SUR			93	%			30	150		
		decachlorobiphenyl SUR			86	%			30	150		
SW3540C8082A	LCS7839	PCB-1016			2.2	ug/g	2	108	40	140		
		PCB-1221		<	0.1	ug/g						
		PCB-1232		<	0.1	ug/g						
		PCB-1242		<	0.1	ug/g						
		PCB-1248		<	0.1	ug/g						
		PCB-1254		<	0.1	ug/g						
		PCB-1260			2.1	ug/g	2	104	40	140		
		tetrachloro-m-xylene SUR			92	%			30	150		
		decachlorobiphenyl SUR			94	%			30	150		
SW3540C8082A	LCSD7839	PCB-1016			2.3	ug/g	2	117	40	140	8	30
		PCB-1221		<	0.1	ug/g						
		PCB-1232		<	0.1	ug/g						
		PCB-1242		<	0.1	ug/g						
		PCB-1248		<	0.1	ug/g						
		PCB-1254		<	0.1	ug/g						
		PCB-1260			2.2	ug/g	2	109	40	140	5	30
		tetrachloro-m-xylene SUR			96	%			30	150		
		decachlorobiphenyl SUR			96	%			30	150		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits	RPD	RPD Limit
SW3546/8270D	BLK7832	N-nitrosodimethylamine		<	0.2	ug/g					
		aniline		<	0.2	ug/g					
		phenol		<	0.2	ug/g					
		2-chlorophenol		<	0.5	ug/g					
		bis(2-chloroethyl)ether		<	0.2	ug/g					
		1,3-dichlorobenzene		<	0.2	ug/g					
		1,4-dichlorobenzene		<	0.2	ug/g					
		1,2-dichlorobenzene		<	0.2	ug/g					
		benzyl alcohol		<	0.2	ug/g					
		2-methylphenol		<	0.2	ug/g					
		bis(2-chloroisopropyl) ether		<	0.2	ug/g					
		hexachloroethane		<	0.2	ug/g					
		N-nitroso-di-N-propylamine		<	0.2	ug/g					
		4-methylphenol		<	0.2	ug/g					
		nitrobenzene		<	0.2	ug/g					
		isophorone		<	0.5	ug/g					
		2-nitrophenol		<	0.2	ug/g					
		2,4-dimethylphenol		<	0.2	ug/g					
		bis(2-chloroethoxy)methane		<	0.5	ug/g					
		2,4-dichlorophenol		<	0.5	ug/g					
		1,2,4-trichlorobenzene		<	0.5	ug/g					
		naphthalene		<	0.05	ug/g					
		benzoic acid		<	5.0	ug/g					
		4-chloroaniline		<	0.2	ug/g					
		hexachlorobutadiene		<	0.2	ug/g					
		4-chloro-3-methylphenol		<	0.2	ug/g					
		2-methylnaphthalene		<	0.05	ug/g					
		hexachlorocyclopentadiene		<	1.0	ug/g					
		2,4,6-trichlorophenol		<	0.2	ug/g					
		2,4,5-trichlorophenol		<	0.2	ug/g					
		2-chloronaphthalene		<	0.5	ug/g					
		2-nitroaniline		<	0.2	ug/g					
		acenaphthylene		<	0.05	ug/g					
		dimethylphthalate		<	0.5	ug/g					
		2,6-dinitrotoluene		<	0.2	ug/g					
		2,4-dinitrotoluene		<	0.2	ug/g					
		acenaphthene		<	0.05	ug/g					
		3-nitroaniline		<	0.2	ug/g					
		2,4-dinitrophenol		<	5.0	ug/g					
		dibenzofuran		<	0.05	ug/g					
		4-nitrophenol		<	1.0	ug/g					
		fluorene		<	0.05	ug/g					
		diethyl phthalate		<	0.5	ug/g					
		4-chlorophenyl phenyl ether		<	0.5	ug/g					
		4-nitroaniline		<	0.5	ug/g					
		4,6-dinitro-2-methylphenol		<	2.0	ug/g					
		azobenzene		<	0.2	ug/g					
		N-nitrosodiphenylamine		<	0.2	ug/g					
		4-bromophenyl phenyl ether		<	0.2	ug/g					
		hexachlorobenzene		<	0.2	ug/g					
		pentachlorophenol		<	1.0	ug/g					

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW3546/8270D	BLK7832	phenanthrene		<	0.05	ug/g						
		anthracene		<	0.05	ug/g						
		carbazole		<	0.2	ug/g						
		di-n-butylphthalate		<	0.5	ug/g						
		fluoranthene		<	0.05	ug/g						
		benzidine		<	3.0	ug/g						
		pyrene		<	0.05	ug/g						
		butyl benzyl phthalate		<	0.5	ug/g						
		benzo(a)anthracene		<	0.05	ug/g						
		chrysene		<	0.05	ug/g						
		3,3'-dichlorobenzidine		<	3.0	ug/g						
		bis(2-ethylhexyl)phthalate		<	0.5	ug/g						
		di-n-octyl phthalate		<	0.2	ug/g						
		benzo(b)fluoranthene		<	0.05	ug/g						
		benzo(k)fluoranthene		<	0.05	ug/g						
		benzo(a)pyrene		<	0.02	ug/g						
		indeno(1,2,3-cd)pyrene		<	0.05	ug/g						
		dibenzo(a,h)anthracene		<	0.05	ug/g						
		benzo(g,h,i)perylene		<	0.05	ug/g						
		2-fluorophenol SUR			58	%			21	100		
		phenol-D5 SUR			60	%			10	102		
		2,4,6-tribromophenol SUR			59	%			10	123		
		nitrobenzene-D5 SUR			58	%			35	114		
		2-fluorobiphenyl SUR			68	%			43	116		
		p-terphenyl-D14 SUR			69	%			33	141		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits	RPD	RPD Limit
SW3546/8270D	DUP7832	N-nitrosodimethylamine	32939-001	<	0.2	ug/g					30
		aniline	32939-001	<	0.2	ug/g					30
		phenol	32939-001	<	0.2	ug/g					30
		2-chlorophenol	32939-001	<	0.5	ug/g					30
		bis(2-chloroethyl)ether	32939-001	<	0.2	ug/g					30
		1,3-dichlorobenzene	32939-001	<	0.2	ug/g					30
		1,4-dichlorobenzene	32939-001	<	0.2	ug/g					30
		1,2-dichlorobenzene	32939-001	<	0.2	ug/g					30
		benzyl alcohol	32939-001	<	0.2	ug/g					30
		2-methylphenol	32939-001	<	0.2	ug/g					30
		bis(2-chloroisopropyl) ether	32939-001	<	0.2	ug/g					30
		hexachloroethane	32939-001	<	0.2	ug/g					30
		N-nitroso-di-N-propylamine	32939-001	<	0.2	ug/g					30
		4-methylphenol	32939-001	<	0.2	ug/g					30
		nitrobenzene	32939-001	<	0.2	ug/g					30
		isophorone	32939-001	<	0.5	ug/g					30
		2-nitrophenol	32939-001	<	0.2	ug/g					30
		2,4-dimethylphenol	32939-001	<	0.2	ug/g					30
		bis(2-chloroethoxy)methane	32939-001	<	0.5	ug/g					30
		2,4-dichlorophenol	32939-001	<	0.5	ug/g					30
		1,2,4-trichlorobenzene	32939-001	<	0.5	ug/g					30
		naphthalene	32939-001	<	0.05	ug/g					30
		benzoic acid	32939-001	<	5.1	ug/g					30
		4-chloroaniline	32939-001	<	0.2	ug/g					30
		hexachlorobutadiene	32939-001	<	0.2	ug/g					30
		4-chloro-3-methylphenol	32939-001	<	0.2	ug/g					30
		2-methylnaphthalene	32939-001	<	0.05	ug/g					30
		hexachlorocyclopentadiene	32939-001	<	1.0	ug/g					30
		2,4,6-trichlorophenol	32939-001	<	0.2	ug/g					30
		2,4,5-trichlorophenol	32939-001	<	0.2	ug/g					30
		2-chloronaphthalene	32939-001	<	0.5	ug/g					30
		2-nitroaniline	32939-001	<	0.2	ug/g					30
		acenaphthylene	32939-001	<	0.05	ug/g					30
		dimethylphthalate	32939-001	<	0.5	ug/g					30
		2,6-dinitrotoluene	32939-001	<	0.2	ug/g					30
		2,4-dinitrotoluene	32939-001	<	0.2	ug/g					30
		acenaphthene	32939-001	<	0.05	ug/g					30
		3-nitroaniline	32939-001	<	0.2	ug/g					30
		2,4-dinitrophenol	32939-001	<	5.1	ug/g					30
		dibenzofuran	32939-001	<	0.05	ug/g					30
		4-nitrophenol	32939-001	<	1.0	ug/g					30
		fluorene	32939-001	<	0.05	ug/g					30
		diethyl phthalate	32939-001	<	0.5	ug/g					30
		4-chlorophenyl phenyl ether	32939-001	<	0.5	ug/g					30
		4-nitroaniline	32939-001	<	0.5	ug/g					30
		4,6-dinitro-2-methylphenol	32939-001	<	2.0	ug/g					30
		azobenzene	32939-001	<	0.2	ug/g					30
		N-nitrosodiphenylamine	32939-001	<	0.2	ug/g					30
		4-bromophenyl phenyl ether	32939-001	<	0.2	ug/g					30
		hexachlorobenzene	32939-001	<	0.2	ug/g					30
		pentachlorophenol	32939-001	<	1.0	ug/g					30

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW3546/8270D	DUP7832	phenanthrene	32939-001	<	0.05	ug/g						30
		anthracene	32939-001	<	0.05	ug/g						30
		carbazole	32939-001	<	0.2	ug/g						30
		di-n-butylphthalate	32939-001	<	0.5	ug/g						30
		fluoranthene	32939-001	<	0.05	ug/g						30
		benzidine	32939-001	<	3.0	ug/g						30
		pyrene	32939-001	<	0.05	ug/g						30
		butyl benzyl phthalate	32939-001	<	0.5	ug/g						30
		benzo(a)anthracene	32939-001	<	0.05	ug/g						30
		chrysene	32939-001	<	0.05	ug/g						30
		3,3'-dichlorobenzidine	32939-001	<	3.0	ug/g						30
		bis(2-ethylhexyl)phthalate	32939-001	<	0.5	ug/g						30
		di-n-octyl phthalate	32939-001	<	0.2	ug/g						30
		benzo(b)fluoranthene	32939-001	<	0.05	ug/g						30
		benzo(k)fluoranthene	32939-001	<	0.05	ug/g						30
		benzo(a)pyrene	32939-001	<	0.02	ug/g						30
		indeno(1,2,3-cd)pyrene	32939-001	<	0.05	ug/g						30
		dibenzo(a,h)anthracene	32939-001	<	0.05	ug/g						30
		benzo(g,h,i)perylene	32939-001	<	0.05	ug/g						30
		2-fluorophenol SUR	32939-001		50	%			21	100		
		phenol-D5 SUR	32939-001		50	%			10	102		
		2,4,6-tribromophenol SUR	32939-001		63	%			10	123		
		nitrobenzene-D5 SUR	32939-001		47	%			35	114		
		2-fluorobiphenyl SUR	32939-001		55	%			43	116		
		p-terphenyl-D14 SUR	32939-001		54	%			33	141		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R		Limits		RPD	RPD Limit
SW3546/8270D	LCS7832	N-nitrosodimethylamine			2.2	ug/g	4	54		40	140		
		aniline			2.2	ug/g	4	55		40	140		
		phenol			2.7	ug/g	4	68		30	130		
		2-chlorophenol			2.5	ug/g	4	62		30	130		
		bis(2-chloroethyl)ether			2.4	ug/g	4	61		40	140		
		1,3-dichlorobenzene			2.1	ug/g	4	53		40	140		
		1,4-dichlorobenzene			2.2	ug/g	4	56		40	140		
		1,2-dichlorobenzene			2.2	ug/g	4	56		40	140		
		benzyl alcohol			2.8	ug/g	4	70		30	130		
		2-methylphenol			2.6	ug/g	4	64		30	130		
		bis(2-chloroisopropyl) ether			2.2	ug/g	4	56		40	140		
		hexachloroethane			2.2	ug/g	4	55		40	140		
		N-nitroso-di-N-propylamine			2.2	ug/g	4	55		40	140		
		4-methylphenol			2.6	ug/g	4	66		30	130		
		nitrobenzene			2.5	ug/g	4	62		40	140		
		isophorone			2.5	ug/g	4	64		40	140		
		2-nitrophenol			2.3	ug/g	4	57		30	130		
		2,4-dimethylphenol			2.2	ug/g	4	54		30	130		
		bis(2-chloroethoxy)methane			2.7	ug/g	4	68		40	140		
		2,4-dichlorophenol			2.6	ug/g	4	66		30	130		
		1,2,4-trichlorobenzene			2.4	ug/g	4	61		40	140		
		naphthalene			2.2	ug/g	4	55		40	140		
		benzoic acid		<	5.0	ug/g							
		4-chloroaniline			2.1	ug/g	4	52		40	140		
		hexachlorobutadiene			2.4	ug/g	4	59		40	140		
		4-chloro-3-methylphenol			2.8	ug/g	4	69		30	130		
		2-methylnaphthalene			2.27	ug/g	4	57		40	140		
		hexachlorocyclopentadiene			1.3	ug/g	4	33	*	40	140		
		2,4,6-trichlorophenol			2.7	ug/g	4	68		30	130		
		2,4,5-trichlorophenol			2.7	ug/g	4	67		30	130		
		2-chloronaphthalene			2.6	ug/g	4	65		40	140		
		2-nitroaniline			2.9	ug/g	4	73		40	140		
		acenaphthylene			2.7	ug/g	4	66		40	140		
		dimethylphthalate			2.8	ug/g	4	71		40	140		
		2,6-dinitrotoluene			2.8	ug/g	4	70		40	140		
		2,4-dinitrotoluene			2.8	ug/g	4	71		40	140		
		acenaphthene			2.5	ug/g	4	62		40	140		
		3-nitroaniline			2.9	ug/g	4	73		40	140		
		2,4-dinitrophenol		<	5.0	ug/g							
		dibenzofuran			2.9	ug/g	4	73		40	140		
		4-nitrophenol			2.8	ug/g	4	71		30	130		
		fluorene			2.9	ug/g	4	73		40	140		
		diethyl phthalate			2.9	ug/g	4	73		40	140		
		4-chlorophenyl phenyl ether			2.8	ug/g	4	69		40	140		
		4-nitroaniline			2.8	ug/g	4	71		40	140		
		4,6-dinitro-2-methylphenol			2.6	ug/g							
		azobenzene			2.9	ug/g	4	74		40	140		
		N-nitrosodiphenylamine			3.6	ug/g	4	89		40	140		
		4-bromophenyl phenyl ether			2.8	ug/g	4	69		40	140		
		hexachlorobenzene			2.5	ug/g	4	63		40	140		
		pentachlorophenol			3.6	ug/g	4	90		30	130		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW3546/8270D	LCS7832	phenanthrene			2.9	ug/g	4	72	40	140		
		anthracene			2.6	ug/g	4	66	40	140		
		carbazole			3.1	ug/g	4	76	40	140		
		di-n-butylphthalate			2.7	ug/g	4	67	40	140		
		fluoranthene			2.6	ug/g	4	65	40	140		
		benzidine		<	3.0	ug/g						
		pyrene			3.3	ug/g	4	83	40	140		
		butyl benzyl phthalate			3.0	ug/g	4	76	40	140		
		benzo(a)anthracene			3.3	ug/g	4	82	40	140		
		chrysene			3.1	ug/g	4	78	40	140		
		3,3'-dichlorobenzidine		<	3.0	ug/g						
		bis(2-ethylhexyl)phthalate			3.1	ug/g	4	78	40	140		
		di-n-octyl phthalate			3.1	ug/g	4	77	40	140		
		benzo(b)fluoranthene			2.9	ug/g	4	73	40	140		
		benzo(k)fluoranthene			2.9	ug/g	4	71	40	140		
		benzo(a)pyrene			3.0	ug/g	4	76	40	140		
		indeno(1,2,3-cd)pyrene			3.2	ug/g	4	81	40	140		
		dibenzo(a,h)anthracene			3.3	ug/g	4	83	40	140		
		benzo(g,h,i)perylene			3.2	ug/g	4	80	40	140		
		2-fluorophenol SUR			58	%			21	100		
		phenol-D5 SUR			60	%			10	102		
		2,4,6-tribromophenol SUR			70	%			10	123		
		nitrobenzene-D5 SUR			58	%			35	114		
		2-fluorobiphenyl SUR			69	%			43	116		
		p-terphenyl-D14 SUR			68	%			33	141		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R		Limits		RPD	RPD Limit
SW3546/8270D	MS7832	N-nitrosodimethylamine	32937-003		2.5	ug/g	4.83	52		40	140		
		aniline	32937-003		2.2	ug/g	4.83	45		40	140		
		phenol	32937-003		3.6	ug/g	4.83	75		30	130		
		2-chlorophenol	32937-003		3.3	ug/g	4.83	67		30	130		
		bis(2-chloroethyl)ether	32937-003		3.2	ug/g	4.83	66		40	140		
		1,3-dichlorobenzene	32937-003		2.7	ug/g	4.83	56		40	140		
		1,4-dichlorobenzene	32937-003		2.9	ug/g	4.83	59		40	140		
		1,2-dichlorobenzene	32937-003		2.9	ug/g	4.83	59		40	140		
		benzyl alcohol	32937-003		3.7	ug/g	4.83	77		30	130		
		2-methylphenol	32937-003		3.5	ug/g	4.83	72		30	130		
		bis(2-chloroisopropyl) ether	32937-003		2.9	ug/g	4.83	60		40	140		
		hexachloroethane	32937-003		2.1	ug/g	4.83	44		40	140		
		N-nitroso-di-N-propylamine	32937-003		2.9	ug/g	4.83	61		40	140		
		4-methylphenol	32937-003		3.5	ug/g	4.83	72		30	130		
		nitrobenzene	32937-003		3.2	ug/g	4.83	67		40	140		
		isophorone	32937-003		3.3	ug/g	4.83	68		40	140		
		2-nitrophenol	32937-003		3.0	ug/g	4.83	62		30	130		
		2,4-dimethylphenol	32937-003		3.4	ug/g	4.83	70		30	130		
		bis(2-chloroethoxy)methane	32937-003		3.4	ug/g	4.83	70		40	140		
		2,4-dichlorophenol	32937-003		3.5	ug/g	4.83	73		30	130		
		1,2,4-trichlorobenzene	32937-003		3.1	ug/g	4.83	64		40	140		
		naphthalene	32937-003		3.0	ug/g	4.83	62		40	140		
		benzoic acid	32937-003	<	6.0	ug/g							
		4-chloroaniline	32937-003		2.3	ug/g	4.83	48		40	140		
		hexachlorobutadiene	32937-003		3.1	ug/g	4.83	64		40	140		
		4-chloro-3-methylphenol	32937-003		3.6	ug/g	4.83	75		30	130		
		2-methylnaphthalene	32937-003		3.00	ug/g	4.831	61		40	140		
		hexachlorocyclopentadiene	32937-003	<	1.2	ug/g	4.83	0	*	40	140		
		2,4,6-trichlorophenol	32937-003		4.0	ug/g	4.83	83		30	130		
		2,4,5-trichlorophenol	32937-003		4.3	ug/g	4.83	89		30	130		
		2-chloronaphthalene	32937-003		3.5	ug/g	4.83	73		40	140		
		2-nitroaniline	32937-003		3.7	ug/g	4.83	77		40	140		
		acenaphthylene	32937-003		3.5	ug/g	4.83	72		40	140		
		dimethylphthalate	32937-003		3.5	ug/g	4.83	73		40	140		
		2,6-dinitrotoluene	32937-003		3.5	ug/g	4.83	72		40	140		
		2,4-dinitrotoluene	32937-003		3.4	ug/g	4.83	70		40	140		
		acenaphthene	32937-003		3.4	ug/g	4.83	68		40	140		
		3-nitroaniline	32937-003		3.3	ug/g	4.83	68		40	140		
		2,4-dinitrophenol	32937-003	<	6.0	ug/g							
		dibenzofuran	32937-003		3.9	ug/g	4.83	77		40	140		
		4-nitrophenol	32937-003		5.2	ug/g	4.83	92		30	130		
		fluorene	32937-003		3.9	ug/g	4.83	77		40	140		
		diethyl phthalate	32937-003		3.7	ug/g	4.83	76		40	140		
		4-chlorophenyl phenyl ether	32937-003		3.5	ug/g	4.83	73		40	140		
		4-nitroaniline	32937-003		2.8	ug/g	4.83	58		40	140		
		4,6-dinitro-2-methylphenol	32937-003		2.5	ug/g	4.83	53		30	130		
		azobenzene	32937-003		3.8	ug/g	4.83	79		40	140		
		N-nitrosodiphenylamine	32937-003		4.6	ug/g	4.83	95		40	140		
		4-bromophenyl phenyl ether	32937-003		3.6	ug/g	4.83	74		40	140		
		hexachlorobenzene	32937-003		3.3	ug/g	4.83	68		40	140		
		pentachlorophenol	32937-003		5.8	ug/g	4.83	120		30	130		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R		Limits		RPD	RPD Limit
SW3546/8270D	MS7832	phenanthrene	32937-003		4.3	ug/g	4.83	36	*	40	140		
		anthracene	32937-003		3.4	ug/g	4.83	58		40	140		
		carbazole	32937-003		3.9	ug/g	4.83	78		40	140		
		di-n-butylphthalate	32937-003		3.2	ug/g	4.83	67		40	140		
		fluoranthene	32937-003		3.8	ug/g	4.83	27	*	40	140		
		benzidine	32937-003	<	3.6	ug/g							
		pyrene	32937-003		4.9	ug/g	4.83	50		40	140		
		butyl benzyl phthalate	32937-003		3.8	ug/g	4.83	79		40	140		
		benzo(a)anthracene	32937-003		4.4	ug/g	4.83	64		40	140		
		chrysene	32937-003		4.2	ug/g	4.83	63		40	140		
		3,3'-dichlorobenzidine	32937-003	<	3.6	ug/g							
		bis(2-ethylhexyl)phthalate	32937-003		3.9	ug/g	4.83	80		40	140		
		di-n-octyl phthalate	32937-003		4.3	ug/g	4.83	89		40	140		
		benzo(b)fluoranthene	32937-003		4.5	ug/g	4.83	77		40	140		
		benzo(k)fluoranthene	32937-003		3.6	ug/g	4.83	59		40	140		
		benzo(a)pyrene	32937-003		4.0	ug/g	4.83	65		40	140		
		indeno(1,2,3-cd)pyrene	32937-003		3.0	ug/g	4.83	54		40	140		
		dibenzo(a,h)anthracene	32937-003		3.0	ug/g	4.83	59		40	140		
		benzo(g,h,i)perylene	32937-003		2.6	ug/g	4.83	45		40	140		
		2-fluorophenol SUR	32937-003		62	%				21	100		
		phenol-D5 SUR	32937-003		64	%				10	102		
		2,4,6-tribromophenol SUR	32937-003		78	%				10	123		
		nitrobenzene-D5 SUR	32937-003		60	%				35	114		
		2-fluorobiphenyl SUR	32937-003		74	%				43	116		
		p-terphenyl-D14 SUR	32937-003		70	%				33	141		
SW3550C8100	BLK7837	TPH C10-C36		<	200	ug/g							
		2-fluorobiphenyl SUR			101	%				40	140		
		o-terphenyl SUR			97	%				40	140		
SW3550C8100	LCS7837	TPH C10-C36			2100	ug/g	2500	82		40	140		
		2-fluorobiphenyl SUR			103	%				40	140		
		o-terphenyl SUR			104	%				40	140		
SW3550C8100	MS7837	TPH C10-C36	32937-010		3000	ug/g	2723	94		40	140		
		2-fluorobiphenyl SUR	32937-010		81	%				40	140		
		o-terphenyl SUR	32937-010		105	%				40	140		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW3550C8270D	BLK7838	naphthalene		<	0.50	ug/g						
		2-methylnaphthalene		<	0.50	ug/g						
		acenaphthylene		<	0.50	ug/g						
		acenaphthene		<	0.50	ug/g						
		dibenzofuran		<	0.50	ug/g						
		fluorene		<	0.50	ug/g						
		phenanthrene		<	0.50	ug/g						
		anthracene		<	0.50	ug/g						
		fluoranthene		<	0.50	ug/g						
		pyrene		<	0.50	ug/g						
		benzo(a)anthracene		<	0.50	ug/g						
		chrysene		<	0.50	ug/g						
		benzo(b)fluoranthene		<	0.50	ug/g						
		benzo(k)fluoranthene		<	0.50	ug/g						
		benzo(a)pyrene		<	0.50	ug/g						
		indeno(1,2,3-cd)pyrene		<	0.50	ug/g						
		dibenzo(a,h)anthracene		<	0.50	ug/g						
		benzo(g,h,i)perylene		<	0.50	ug/g						
		2-fluorobiphenyl SUR			90	%			43	116		
		o-terphenyl SUR			100	%			33	141		
SW3550C8270D	DUP7838	naphthalene	32937-016	<	0.64	ug/g						30
		2-methylnaphthalene	32937-016	<	0.64	ug/g						30
		acenaphthylene	32937-016	<	0.64	ug/g						30
		acenaphthene	32937-016	<	0.64	ug/g						30
		dibenzofuran	32937-016	<	0.64	ug/g						30
		fluorene	32937-016	<	0.64	ug/g						30
		phenanthrene	32937-016		0.68	ug/g					49	30
		anthracene	32937-016	<	0.64	ug/g						30
		fluoranthene	32937-016		1.8	ug/g					41	30
		pyrene	32937-016		2.2	ug/g					51	30
		benzo(a)anthracene	32937-016		1.0	ug/g					52	30
		chrysene	32937-016		1.2	ug/g					45	30
		benzo(b)fluoranthene	32937-016		1.5	ug/g					56	30
		benzo(k)fluoranthene	32937-016		0.78	ug/g					26	30
		benzo(a)pyrene	32937-016		1.3	ug/g					53	30
		indeno(1,2,3-cd)pyrene	32937-016		0.79	ug/g					58	30
		dibenzo(a,h)anthracene	32937-016	<	0.64	ug/g						30
		benzo(g,h,i)perylene	32937-016		1.00	ug/g					59	30
		2-fluorobiphenyl SUR	32937-016		73	%			43	116		
		o-terphenyl SUR	32937-016		71	%			33	141		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW3550C8270D	LCS7838	naphthalene			3.4	ug/g	4	84	40	140		
		2-methylnaphthalene			3.3	ug/g	4	84	40	140		
		acenaphthylene			3.6	ug/g	4	90	40	140		
		acenaphthene			3.4	ug/g	4	85	40	140		
		dibenzofuran		<	0.50	ug/g						
		fluorene			3.6	ug/g	4	91	40	140		
		phenanthrene			3.4	ug/g	4	85	40	140		
		anthracene			3.3	ug/g	4	82	40	140		
		fluoranthene			3.2	ug/g	4	79	40	140		
		pyrene			4.1	ug/g	4	102	40	140		
		benzo(a)anthracene			3.9	ug/g	4	98	40	140		
		chrysene			3.4	ug/g	4	86	40	140		
		benzo(b)fluoranthene			3.0	ug/g	4	76	40	140		
		benzo(k)fluoranthene			4.1	ug/g	4	102	40	140		
		benzo(a)pyrene			3.5	ug/g	4	88	40	140		
		indeno(1,2,3-cd)pyrene			3.6	ug/g	4	90	40	140		
		dibenzo(a,h)anthracene			3.5	ug/g	4	88	40	140		
		benzo(g,h,i)perylene			3.7	ug/g	4	92	40	140		
		2-fluorobiphenyl SUR			90	%			43	116		
		o-terphenyl SUR			98	%			33	141		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R		Limits		RPD	RPD Limit
SW3051A6010C	BLK7835	Silver		<	0.25	ug/g							
		Arsenic		<	0.50	ug/g							
		Barium		<	2.5	ug/g							
		Cadmium		<	0.20	ug/g							
		Chromium		<	2.5	ug/g							
		Lead		<	0.50	ug/g							
		Selenium		<	2.5	ug/g							
SW3051A6010C	CRM7835	Silver			43	ug/g	38			25.1	51.9		
		Arsenic			470	ug/g	400			292	508		
		Barium			29	ug/g	25			0	51.3		
		Cadmium			18	ug/g	15			8.71	22		
		Chromium			13	ug/g	14			2.45	24.7		
		Lead			5900	ug/g	5100			3750	6470		
		Selenium			7.9	ug/g	6.6			0	18.4		
SW3051A6010C	CRMD7835	Silver			40	ug/g	38			25.1	51.9	7	35
		Arsenic			440	ug/g	400			292	508	8	35
		Barium			24	ug/g	25			0	51.3	16	35
		Cadmium			18	ug/g	15			8.71	22	1	35
		Chromium			15	ug/g	14			2.45	24.7	16	35
		Lead			5600	ug/g	5100			3750	6470	5	35
		Selenium			7.0	ug/g	6.6			0	18.4	11	35
SW3051A6010C	MS7835	Lead	32931-006		260	ug/g	50.6	121		75	125		
SW3051A6010C	MSD7835	Lead	32931-006		270	ug/g	50.6	126	*	75	125	1	35

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW3051A6010C	BLK7847	Silver		<	0.25	ug/g						
		Arsenic		<	0.50	ug/g						
		Barium		<	2.5	ug/g						
		Cadmium		<	0.20	ug/g						
		Chromium		<	2.5	ug/g						
		Lead		<	0.50	ug/g						
		Selenium		<	2.5	ug/g						
SW3051A6010C	CRM7847	Silver			49	ug/g	38		25.1	51.9		
		Arsenic			480	ug/g	400		292	508		
		Barium			26	ug/g	25		0	51.3		
		Cadmium			18	ug/g	15		8.71	22		
		Chromium			15	ug/g	14		2.45	24.7		
		Lead			5600	ug/g	5100		3750	6470		
		Selenium			7.1	ug/g	6.6		0	18.4		
SW3051A6010C	CRMD7847	Silver			47	ug/g	38		25.1	51.9	3	35
		Arsenic			450	ug/g	400		292	508	7	35
		Barium			26	ug/g	25		0	51.3	3	35
		Cadmium			18	ug/g	15		8.71	22	3	35
		Chromium			15	ug/g	14		2.45	24.7	0	35
		Lead			5500	ug/g	5100		3750	6470	1	35
		Selenium			7.5	ug/g	6.6		0	18.4	5	35
SW3051A6010C	MS7847	Silver	32937-014		28	ug/g	27	101	75	125		
		Arsenic	32937-014		62	ug/g	54	104	75	125		
		Barium	32937-014		81	ug/g	54	106	75	125		
		Cadmium	32937-014		55	ug/g	54	101	75	125		
		Chromium	32937-014		66	ug/g	54	108	75	125		
		Lead	32937-014		71	ug/g	54	105	75	125		
		Selenium	32937-014		55	ug/g	54	99	75	125		
SW3051A6010C	MSD7847	Silver	32937-014		27	ug/g	27	101	75	125	1	35
		Arsenic	32937-014		62	ug/g	54	105	75	125	0	35
		Barium	32937-014		82	ug/g	54	108	75	125	1	35
		Cadmium	32937-014		55	ug/g	54	101	75	125	0	35
		Chromium	32937-014		66	ug/g	54	108	75	125	0	35
		Lead	32937-014		72	ug/g	54	106	75	125	1	35
		Selenium	32937-014		55	ug/g	54	99	75	125	0	35
SW7471B	BLK7849	Mercury		<	0.14	ug/g						
SW7471B	CRM7849	Mercury			1.4	ug/g	1.1		0.49	1.76		
SW7471B	CRMD7849	Mercury			1.3	ug/g	1.1		0.49	1.76	10	35
SW7471B	MS7849	Mercury	32937-012		0.54	ug/g	0.444	122	75	125		
SW7471B	MS7849	Mercury	32937-014		0.54	ug/g	0.424	122	75	125		
SW7471B	MSD7849	Mercury	32937-014		0.54	ug/g	0.424	120	75	125	1	35

PAGE 1 OF 2

Absolute Resource associates

124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

32937

Company Name: CREDERE

Company Address: 776 MAIN ST WESTBROOK ME 04092

Report To: JUDD NEWCOMB

Phone #: 207-232-5387

Invoice to Email: JNEWCOMB@CREDERELLC.COM

☐ Hard Copy Invoice Required

Project Name: MADEIRA

Project #: 14001247

Project Location: (NH) MA ME VT NY ___ Other

Protocol: RCRA SDWA NPDES MCP ~~NHDES~~ OTHER

Reporting Limits: QAPP (GW-1) S-1 EPA DW Other___

Quote # CREDERE ☐ NH Reimbursement Pricing

PO # 14001247

ANALYSIS REQUEST

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER	Preservation: HCl	Preservation: HNO_3	Preservation: H_2SO_4	Preservation: NaOH	Preservation: MeOH	Sampling: DATE	Sampling: TIME	Sampling: SAMPLER	☒ VOC 8260 NHDES	☒ TPH	☒ 8270ABN	☒ 8082 PCB (Soxhlet)	☒ RCRA Metals	Grab (G) or Composite (C)
3293701	CA-SB-1 (6-8)	2		X						X	5/8/15	1330	JN	X		X		X	G
02	CA-SB-2 (4-6)	2		↓						↓	↓	1245	JN	X		↓		X	↓
03	CA-SB-3 (2-4)	2		↓						↓	↓	1145	JN	↓		↓	X	X	↓
04	CA-DUP	2		↓						↓	↓	~~1150~~	JN	↓		↓	X	X	↓
05	CA-SB-3 (4-6)	2		↓						↓	↓	1150	JN	↓		↓	X	X	↓
06	CA-SB-4 (0-2)	2		↓						↓	↓	1100	JN	↓		↓	X	X	↓
07	CA-SB-4 (8-10)	2		↓						↓	↓	1110	JN	↓		↓	X	X	↓
08	CA-SB-5 (4-6)	2		↓						↓	5/7/15	1500	MK	↓	X	↓	X	X	↓
09	CA-SB-6 (6-8)	2		↓						↓	5/7/15	910	MK	↓	X	↓			↓
10	CA-SB-7 (4-6)	2		↓						↓	5/8/15	1015	JN	↓	X	↓			↓
11	CA-SB-8 (6-8)	2		↓						↓	5/7/15	1030	MK	↓	X	↓			↓

Analysis options listed on form:
- ☐ VOC 8260 ☒ VOC 8260 NHDES ☐ VOC 8260 MADEP
- ☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT
- ☐ VPH MADEP ☐ MEGRO ☐ GRO 8015 ☐ 1,4-Dioxane
- ☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List:
- ☒ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
- ☐ 8270PAH ☒ 8270ABN ☐ 625 ☐ EDB
- ☒ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB Soxhlet
- ☐ O&G 1664 ☐ Mineral O&G SM5520F
- ☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity
- ☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity
- ☒ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness
- ☐ Total Metals-list:
- ☐ Dissolved Metals-list:
- ☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC
- ☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN
- ☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P
- ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride
- ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP
- ☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide
- Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde
- Grab (G) or Composite (C)

TAT REQUESTED

Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☐
*Date Needed 5/22/15

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☒ PDF (e-mail address) Same
☐ HARD COPY REQUIRED ☐ FAX (FAX#)

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 2 °C

CUSTODY RECORD

QSD-01 Revision 01/09/15

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Sampler: [signature]	5/8/15	1520	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by Laboratory: [signature]	5/8/15	1520

PAGE 2 OF 2

Absolute Resource associates

124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

32937

Company Name: CREDERE
Company Address: 776 MAIN ST WESTBROOK ME 04092
Report To: JUDD NEWCOMB
Phone #: 207-232-5387
Invoice to Email: JNEWCOMB@CREDERELLC.com
☐ Hard Copy Invoice Required

Project Name: MADEIRA
Project #: 14001247
Project Location: (NH) MA ME VT NY ___ Other
Protocol: RCRA SDWA NPDES MCP ~~NHDES~~ OTHER
Reporting Limits: QAPP (GW-1) S-1 EPA DW Other
Quote # CREDERE ☐ NH Reimbursement Pricing
PO # 14001247

ANALYSIS REQUEST

☐ VOC 8260 ☒ VOC 8260 NHDES ☐ VOC 8260 MADEP
☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT
☐ VPH MADEP ☐ MEGRO ☐ GRO 8015 ☐ 1,4-Dioxane
☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List:
☒ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
☐ 8270PAH ☒ 8270ABN ☐ 625 ☐ EDB
☒ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB Soxhlet
☐ O&G 1664 ☐ Mineral O&G SM5520F
☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity
☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity
☒ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness
☐ Total Metals-list:
☐ Dissolved Metals-list:
☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC
☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN
☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P
☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride
☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP
☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide
Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde
8270 PAH
Grab (G) or Composite (C)

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER	Pres.: HCl	Pres.: HNO_3	Pres.: H_2SO_4	Pres.: NaOH	Pres.: MeOH	Sampling: DATE	Sampling: TIME	Sampling: SAMPLER	VOC 8260 NHDES	TPH	8270ABN	8082 PCB Soxhlet	RCRA Metals	8270 PAH	Grab (G) or Composite (C)
12	CA-SS-4 (12-14/12.5)	3		X						X	5/7/15	1230	MK	X	X	X	X	X		G
13	CA-SS-1	1		↓							↓		MW				↓	↓	X	
14	CA-SS-2	1		↓							↓		MW				↓	↓	↓	
15	CA-SS-3	1		↓							↓		MW				↓	(1) MS/MSD	↓	
16	CA-SS-4	1		↓							↓		MW				↓	↓	↓	
17	CA-SS-5	1		↓							↓		MW				↓	↓	↓	
18	Trip Blank																			

TAT REQUESTED
Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☐
*Date Needed 5/20/15

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☒ PDF (e-mail address) Same
☐ HARD COPY REQUIRED ☐ FAX (FAX#)

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 2 °C

CUSTODY RECORD

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Sampler: [signature]	5/8/15	1520	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by Laboratory: [signature]	5/8/15	1520

QSD-01 Revision 01/09/15

Laboratory Report

Absolute Resource associates
124 Heritage Avenue Portsmouth NH 03801

Judd Newcomb
CREDERE Associates
776 Main Street
Westbrook, ME 04092

PO Number: 14001247
Job ID: 33130
Date Received: 5/29/15

Project: MADEIRA 14001247

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 6/10/2015
Total number of pages: 63

Absolute Resource Associates Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: MADEIRA 14001247

Lab ID: 33130

Sample Association Table

Field ID	Matrix	Date-Time Sampled	Lab#	Analysis
CA-MW-1	Water	5/27/2015 11:15	33130-001	
				Acid & Base/Neutral Extractables in water by 8270
				Water Digestion for ICP Analysis
				Silver in water by 6010
				Arsenic in water by 6010
				Barium in water by 6010
				Cadmium in water by 6010
				Chromium in water by 6010
				Mercury in water by 7470
				Lead in water by 6010
				Selenium in water by 6010
				VOCs in water by 8260 Petro & Haz Waste
CA-MW-2	Water	5/27/2015 12:45	33130-002	
				Acid & Base/Neutral Extractables in water by 8270
				Water Digestion for ICP Analysis
				Silver in water by 6010
				Arsenic in water by 6010
				Barium in water by 6010
				Cadmium in water by 6010
				Chromium in water by 6010
				Mercury in water by 7470
				Lead in water by 6010
				Selenium in water by 6010
				VOCs in water by 8260 Petro & Haz Waste
CA-MW-3	Water	5/27/2015 11:20	33130-003	
				Acid & Base/Neutral Extractables in water by 8270
				Water Digestion for ICP Analysis
				Silver in water by 6010
				Arsenic in water by 6010
				Barium in water by 6010
				Cadmium in water by 6010
				Chromium in water by 6010
				Mercury in water by 7470
				Lead in water by 6010
				Selenium in water by 6010
				VOCs in water by 8260 Petro & Haz Waste
CA-MW-4	Water	5/27/2015 12:35	33130-004	
				Acid & Base/Neutral Extractables in water by 8270
				Water Digestion for ICP Analysis
				Silver in water by 6010
				Arsenic in water by 6010
				Barium in water by 6010
				Cadmium in water by 6010
				Chromium in water by 6010
				Mercury in water by 7470
				Lead in water by 6010
				Selenium in water by 6010
				VOCs in water by 8260 Petro & Haz Waste
CA-MW-5	Water	5/27/2015 9:50	33130-005	
				Acid & Base/Neutral Extractables in water by 8270
				Water Digestion for ICP Analysis
				Silver in water by 6010

Project ID: MADEIRA 14001247
Lab ID: 33130

Sample Association Table

Field ID	Matrix	Date-Time Sampled	Lab#	Analysis
CA-MW-5	Water	5/27/2015 9:50	33130-005	
				Arsenic in water by 6010
				Barium in water by 6010
				Cadmium in water by 6010
				Chromium in water by 6010
				Mercury in water by 7470
				Lead in water by 6010
				Selenium in water by 6010
				VOCs in water by 8260 Petro & Haz Waste
CA-MW-8	Water	5/27/2015 14:35	33130-006	
				Acid & Base/Neutral Extractables in water by 8270
				Water Digestion for ICP Analysis
				Silver in water by 6010
				Arsenic in water by 6010
				Barium in water by 6010
				Cadmium in water by 6010
				Chromium in water by 6010
				Mercury in water by 7470
				Lead in water by 6010
				Selenium in water by 6010
				VOCs in water by 8260 Petro & Haz Waste
CA-MW-9	Water	5/27/2015 9:45	33130-007	
				Acid & Base/Neutral Extractables in water by 8270
				Water Digestion for ICP Analysis
				Silver in water by 6010
				Arsenic in water by 6010
				Barium in water by 6010
				Cadmium in water by 6010
				Chromium in water by 6010
				Mercury in water by 7470
				Lead in water by 6010
				Selenium in water by 6010
				VOCs in water by 8260 Petro & Haz Waste
CA-MW-DUP	Water	5/27/2015 11:30	33130-008	
				Acid & Base/Neutral Extractables in water by 8270
				Water Digestion for ICP Analysis
				Silver in water by 6010
				Arsenic in water by 6010
				Barium in water by 6010
				Cadmium in water by 6010
				Chromium in water by 6010
				Mercury in water by 7470
				Lead in water by 6010
				Selenium in water by 6010
				VOCs in water by 8260 Petro & Haz Waste
Trip Blank	Water	5/27/2015 0:00	33130-010	
				VOCs in water by 8260 Petro & Haz Waste

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-001
Sample ID: CA-MW-1
Matrix: Water
Sampled: 5/27/15 11:15

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
chloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
vinyl chloride	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
bromomethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
chloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
diethyl ether	< 5	5	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
acetone	< 50	50	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
methylene chloride	< 5	5	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
carbon disulfide	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
t-butanol (TBA)	< 30	30	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
chloroform	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
bromochloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
carbon tetrachloride	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
benzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
trichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,4-dioxane	< 50	50	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
dibromomethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
toluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
2-hexanone	< 10	10	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
tetrachloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
dibromochloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-001
Sample ID: CA-MW-1
Matrix: Water
Sampled: 5/27/15 11:15

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
chlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
ethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
m&p-xylenes	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
o-xylene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
styrene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
bromoform	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
isopropylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
n-propylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
bromobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
2-chlorotoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
4-chlorotoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
tert-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
sec-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
n-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
naphthalene	< 5	5	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**102**	78-114	%	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
toluene-D8 SUR	**98**	88-110	%	1	LMM		1501292	6/4/15	10:04	SW5030C8260C
4-bromofluorobenzene SUR	**97**	86-115	%	1	LMM		1501292	6/4/15	10:04	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-002
Sample ID: CA-MW-2
Matrix: Water
Sampled: 5/27/15 12:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
chloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
vinyl chloride	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
bromomethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
chloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
diethyl ether	< 5	5	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
acetone	< 50	50	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
methylene chloride	< 5	5	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
carbon disulfide	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
t-butanol (TBA)	< 30	30	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
chloroform	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
bromochloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
carbon tetrachloride	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
benzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
trichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,4-dioxane	< 50	50	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
dibromomethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
toluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
2-hexanone	< 10	10	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
tetrachloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
dibromochloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-002
Sample ID: CA-MW-2
Matrix: Water
Sampled: 5/27/15 12:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
chlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
ethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
m&p-xylenes	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
o-xylene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
styrene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
bromoform	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
isopropylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
n-propylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
bromobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
2-chlorotoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
4-chlorotoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
tert-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
sec-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
n-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
naphthalene	< 5	5	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**99**	78-114	%	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
toluene-D8 SUR	**98**	88-110	%	1	LMM		1501292	6/4/15	10:34	SW5030C8260C
4-bromofluorobenzene SUR	**103**	86-115	%	1	LMM		1501292	6/4/15	10:34	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-003
Sample ID: CA-MW-3
Matrix: Water
Sampled: 5/27/15 11:20

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
chloromethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
vinyl chloride	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
bromomethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
chloroethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
diethyl ether	< 5	5	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
acetone	< 50	50	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
methylene chloride	< 5	5	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
carbon disulfide	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
t-butanol (TBA)	< 30	30	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
chloroform	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
bromochloromethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
carbon tetrachloride	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
benzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
trichloroethene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,4-dioxane	< 50	50	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
dibromomethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
toluene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
2-hexanone	< 10	10	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
tetrachloroethene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
dibromochloromethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-003
Sample ID: CA-MW-3
Matrix: Water
Sampled: 5/27/15 11:20

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
chlorobenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
ethylbenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
m&p-xylenes	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
o-xylene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
styrene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
bromoform	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
isopropylbenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
n-propylbenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
bromobenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
2-chlorotoluene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
4-chlorotoluene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
tert-butylbenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
sec-butylbenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
n-butylbenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
naphthalene	< 5	5	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**97**	78-114	%	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
toluene-D8 SUR	**98**	88-110	%	1	LMM		1501295	6/5/15	1:45	SW5030C8260C
4-bromofluorobenzene SUR	**100**	86-115	%	1	LMM		1501295	6/5/15	1:45	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-004
Sample ID: CA-MW-4
Matrix: Water
Sampled: 5/27/15 12:35

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
chloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
vinyl chloride	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
bromomethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
chloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
diethyl ether	< 5	5	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
acetone	< 50	50	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
methylene chloride	< 5	5	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
carbon disulfide	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
t-butanol (TBA)	< 30	30	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
chloroform	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
bromochloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
carbon tetrachloride	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
benzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
trichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,4-dioxane	< 50	50	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
dibromomethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
toluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
2-hexanone	< 10	10	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
tetrachloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
dibromochloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-004
Sample ID: CA-MW-4
Matrix: Water
Sampled: 5/27/15 12:35

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
chlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
ethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
m&p-xylenes	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
o-xylene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
styrene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
bromoform	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
isopropylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
n-propylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
bromobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
2-chlorotoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
4-chlorotoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
tert-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
sec-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
n-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
naphthalene	< 5	5	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**98**	78-114	%	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
toluene-D8 SUR	**98**	88-110	%	1	LMM		1501292	6/4/15	11:42	SW5030C8260C
4-bromofluorobenzene SUR	**99**	86-115	%	1	LMM		1501292	6/4/15	11:42	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-005
Sample ID: CA-MW-5
Matrix: Water
Sampled: 5/27/15 9:50

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
chloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
vinyl chloride	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
bromomethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
chloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
diethyl ether	< 5	5	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
acetone	< 50	50	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
methylene chloride	< 5	5	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
carbon disulfide	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
t-butanol (TBA)	< 30	30	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
chloroform	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
bromochloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
carbon tetrachloride	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
benzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
trichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,4-dioxane	< 50	50	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
dibromomethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
toluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
2-hexanone	< 10	10	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
tetrachloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
dibromochloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-005
Sample ID: CA-MW-5
Matrix: Water
Sampled: 5/27/15 9:50

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
chlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
ethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
m&p-xylenes	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
o-xylene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
styrene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
bromoform	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
isopropylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
n-propylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
bromobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
2-chlorotoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
4-chlorotoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
tert-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
sec-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
n-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
naphthalene	< 5	5	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**100**	78-114	%	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
toluene-D8 SUR	**99**	88-110	%	1	LMM		1501292	6/4/15	12:12	SW5030C8260C
4-bromofluorobenzene SUR	**98**	86-115	%	1	LMM		1501292	6/4/15	12:12	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-006
Sample ID: CA-MW-8
Matrix: Water
Sampled: 5/27/15 14:35

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
chloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
vinyl chloride	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
bromomethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
chloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
diethyl ether	< 5	5	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
acetone	< 50	50	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
methylene chloride	< 5	5	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
carbon disulfide	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
t-butanol (TBA)	< 30	30	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
chloroform	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
bromochloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
carbon tetrachloride	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
benzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
trichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,4-dioxane	< 50	50	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
dibromomethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
toluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
2-hexanone	< 10	10	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
tetrachloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
dibromochloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-006
Sample ID: CA-MW-8
Matrix: Water
Sampled: 5/27/15 14:35

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
chlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
ethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
m&p-xylenes	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
o-xylene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
styrene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
bromoform	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
isopropylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
n-propylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
bromobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
2-chlorotoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
4-chlorotoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
tert-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
sec-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
n-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
naphthalene	< 5	5	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**101**	78-114	%	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
toluene-D8 SUR	**101**	88-110	%	1	LMM		1501292	6/4/15	12:42	SW5030C8260C
4-bromofluorobenzene SUR	**101**	86-115	%	1	LMM		1501292	6/4/15	12:42	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-007
Sample ID: CA-MW-9
Matrix: Water
Sampled: 5/27/15 9:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
chloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
vinyl chloride	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
bromomethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
chloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
diethyl ether	< 5	5	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
acetone	< 50	50	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
methylene chloride	< 5	5	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
carbon disulfide	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
t-butanol (TBA)	< 30	30	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
chloroform	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
bromochloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
carbon tetrachloride	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
benzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
trichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,4-dioxane	< 50	50	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
dibromomethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
toluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
2-hexanone	< 10	10	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
tetrachloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
dibromochloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-007
Sample ID: CA-MW-9
Matrix: Water
Sampled: 5/27/15 9:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
chlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
ethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
m&p-xylenes	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
o-xylene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
styrene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
bromoform	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
isopropylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
n-propylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
bromobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
2-chlorotoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
4-chlorotoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
tert-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
sec-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
n-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
naphthalene	< 5	5	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**98**	78-114	%	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
toluene-D8 SUR	**99**	88-110	%	1	LMM		1501292	6/4/15	13:12	SW5030C8260C
4-bromofluorobenzene SUR	**98**	86-115	%	1	LMM		1501292	6/4/15	13:12	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-008
Sample ID: CA-MW-DUP
Matrix: Water
Sampled: 5/27/15 11:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
chloromethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
vinyl chloride	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
bromomethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
chloroethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
diethyl ether	< 5	5	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
acetone	< 50	50	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
methylene chloride	< 5	5	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
carbon disulfide	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
t-butanol (TBA)	< 30	30	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
chloroform	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
bromochloromethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
carbon tetrachloride	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
benzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
trichloroethene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,4-dioxane	< 50	50	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
dibromomethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
toluene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
2-hexanone	< 10	10	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
tetrachloroethene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
dibromochloromethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-008
Sample ID: CA-MW-DUP
Matrix: Water
Sampled: 5/27/15 11:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
chlorobenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
ethylbenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
m&p-xylenes	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
o-xylene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
styrene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
bromoform	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
isopropylbenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
n-propylbenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
bromobenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
2-chlorotoluene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
4-chlorotoluene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
tert-butylbenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
sec-butylbenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
n-butylbenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
naphthalene	< 5	5	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**98**	78-114	%	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
toluene-D8 SUR	**100**	88-110	%	1	LMM		1501295	6/5/15	2:44	SW5030C8260C
4-bromofluorobenzene SUR	**98**	86-115	%	1	LMM		1501295	6/5/15	2:44	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-010
Sample ID: Trip Blank
Matrix: Water
Sampled: 5/27/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
chloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
vinyl chloride	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
bromomethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
chloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
diethyl ether	< 5	5	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
acetone	< 50	50	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
methylene chloride	< 5	5	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
carbon disulfide	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
t-butanol (TBA)	< 30	30	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
chloroform	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
bromochloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
carbon tetrachloride	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
benzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
trichloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,4-dioxane	< 50	50	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
dibromomethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
toluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
2-hexanone	< 10	10	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
tetrachloroethene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
dibromochloromethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-010
Sample ID: Trip Blank
Matrix: Water
Sampled: 5/27/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
chlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
ethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
m&p-xylenes	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
o-xylene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
styrene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
bromoform	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
isopropylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
n-propylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
bromobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
2-chlorotoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
4-chlorotoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
tert-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
sec-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
n-butylbenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
naphthalene	< 5	5	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**100**	78-114	%	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
toluene-D8 SUR	**100**	88-110	%	1	LMM		1501292	6/4/15	8:35	SW5030C8260C
4-bromofluorobenzene SUR	**99**	86-115	%	1	LMM		1501292	6/4/15	8:35	SW5030C8260C

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-001
Sample ID: CA-MW-1
Matrix: Water
Sampled: 5/27/15 11:15

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
aniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
phenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
2-chlorophenol	< 5	5	ug/L	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
bis(2-chloroethyl)ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
1,3-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
1,4-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
1,2-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
benzyl alcohol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
2-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
bis(2-chloroisopropyl) ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
hexachloroethane	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
N-nitroso-di-N-propylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
4-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
nitrobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
isophorone	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
2-nitrophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
2,4-dimethylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
bis(2-chloroethoxy)methane	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
2,4-dichlorophenol	< 5	5	ug/L	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
1,2,4-trichlorobenzene	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
naphthalene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
benzoic acid	< 50	50	ug/L	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
4-chloroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
hexachlorobutadiene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
4-chloro-3-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
2-methylnaphthalene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
hexachlorocyclopentadiene	< 10	10	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
2,4,6-trichlorophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
2,4,5-trichlorophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
2-chloronaphthalene	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
2-nitroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
acenaphthylene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
dimethylphthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
2,6-dinitrotoluene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
2,4-dinitrotoluene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
acenaphthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
3-nitroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
2,4-dinitrophenol	< 50	50	ug/L	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
dibenzofuran	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
4-nitrophenol	< 10	10	ug/L	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
fluorene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
diethyl phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-001
Sample ID: CA-MW-1
Matrix: Water
Sampled: 5/27/15 11:15

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
4-nitroaniline	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
4,6-dinitro-2-methylphenol	< 20	20	ug/L	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
azobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
N-nitrosodiphenylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
4-bromophenyl phenyl ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
hexachlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
pentachlorophenol	< 10	10	ug/L	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
phenanthrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
carbazole	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
di-n-butylphthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
benzidine	< 30	30	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
pyrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
butyl benzyl phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
benzo(a)anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
chrysene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
3,3'-dichlorobenzidine	< 30	30	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
bis(2-ethylhexyl)phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
di-n-octyl phthalate	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
benzo(b)fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
benzo(k)fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
benzo(a)pyrene	< 0.2	0.2	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
indeno(1,2,3-cd)pyrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
dibenzo(a,h)anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
benzo(g,h,i)perylene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**25**	21-100	%	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
phenol-D5 SUR	**16**	10-102	%	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
2,4,6-tribromophenol SUR	**83**	10-123	%	1	AJD	6/2/15	7900	6/4/15	11:45	SW3510C8270D
nitrobenzene-D5 SUR	**73**	35-114	%	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
2-fluorobiphenyl SUR	**86**	43-116	%	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D
p-terphenyl-D14 SUR	**81**	33-141	%	1	AJD	6/2/15	7900	6/3/15	11:40	SW3510C8270D

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-002
Sample ID: CA-MW-2
Matrix: Water
Sampled: 5/27/15 12:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
aniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
phenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
2-chlorophenol	< 5	5	ug/L	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
bis(2-chloroethyl)ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
1,3-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
1,4-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
1,2-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
benzyl alcohol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
2-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
bis(2-chloroisopropyl) ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
hexachloroethane	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
N-nitroso-di-N-propylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
4-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
nitrobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
isophorone	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
2-nitrophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
2,4-dimethylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
bis(2-chloroethoxy)methane	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
2,4-dichlorophenol	< 5	5	ug/L	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
1,2,4-trichlorobenzene	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
naphthalene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
benzoic acid	< 50	50	ug/L	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
4-chloroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
hexachlorobutadiene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
4-chloro-3-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
2-methylnaphthalene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
hexachlorocyclopentadiene	< 10	10	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
2,4,6-trichlorophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
2,4,5-trichlorophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
2-chloronaphthalene	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
2-nitroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
acenaphthylene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
dimethylphthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
2,6-dinitrotoluene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
2,4-dinitrotoluene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
acenaphthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
3-nitroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
2,4-dinitrophenol	< 50	50	ug/L	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
dibenzofuran	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
4-nitrophenol	< 10	10	ug/L	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
fluorene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
diethyl phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-002
Sample ID: CA-MW-2
Matrix: Water
Sampled: 5/27/15 12:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
4-nitroaniline	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
4,6-dinitro-2-methylphenol	< 20	20	ug/L	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
azobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
N-nitrosodiphenylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
4-bromophenyl phenyl ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
hexachlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
pentachlorophenol	< 10	10	ug/L	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
phenanthrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
carbazole	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
di-n-butylphthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
benzidine	< 30	30	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
pyrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
butyl benzyl phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
benzo(a)anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
chrysene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
3,3'-dichlorobenzidine	< 30	30	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
bis(2-ethylhexyl)phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
di-n-octyl phthalate	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
benzo(b)fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
benzo(k)fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
benzo(a)pyrene	< 0.2	0.2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
indeno(1,2,3-cd)pyrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
dibenzo(a,h)anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
benzo(g,h,i)perylene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**21**	21-100	%	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
phenol-D5 SUR	**12**	10-102	%	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
2,4,6-tribromophenol SUR	**77**	10-123	%	1	AJD	6/2/15	7900	6/4/15	12:23	SW3510C8270D
nitrobenzene-D5 SUR	**74**	35-114	%	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
2-fluorobiphenyl SUR	**87**	43-116	%	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D
p-terphenyl-D14 SUR	**84**	33-141	%	1	AJD	6/2/15	7900	6/3/15	12:17	SW3510C8270D

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-003
Sample ID: CA-MW-3
Matrix: Water
Sampled: 5/27/15 11:20

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
aniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
phenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
2-chlorophenol	< 5	5	ug/L	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
bis(2-chloroethyl)ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
1,3-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
1,4-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
1,2-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
benzyl alcohol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
2-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
bis(2-chloroisopropyl) ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
hexachloroethane	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
N-nitroso-di-N-propylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
4-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
nitrobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
isophorone	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
2-nitrophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
2,4-dimethylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
bis(2-chloroethoxy)methane	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
2,4-dichlorophenol	< 5	5	ug/L	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
1,2,4-trichlorobenzene	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
naphthalene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
benzoic acid	< 50	50	ug/L	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
4-chloroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
hexachlorobutadiene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
4-chloro-3-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
2-methylnaphthalene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
hexachlorocyclopentadiene	< 10	10	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
2,4,6-trichlorophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
2,4,5-trichlorophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
2-chloronaphthalene	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
2-nitroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
acenaphthylene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
dimethylphthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
2,6-dinitrotoluene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
2,4-dinitrotoluene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
acenaphthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
3-nitroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
2,4-dinitrophenol	< 50	50	ug/L	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
dibenzofuran	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
4-nitrophenol	< 10	10	ug/L	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
fluorene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
diethyl phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-003
Sample ID: CA-MW-3
Matrix: Water
Sampled: 5/27/15 11:20

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
4-nitroaniline	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
4,6-dinitro-2-methylphenol	< 20	20	ug/L	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
azobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
N-nitrosodiphenylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
4-bromophenyl phenyl ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
hexachlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
pentachlorophenol	< 10	10	ug/L	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
phenanthrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
carbazole	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
di-n-butylphthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
benzidine	< 30	30	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
pyrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
butyl benzyl phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
benzo(a)anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
chrysene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
3,3'-dichlorobenzidine	< 30	30	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
bis(2-ethylhexyl)phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
di-n-octyl phthalate	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
benzo(b)fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
benzo(k)fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
benzo(a)pyrene	< 0.2	0.2	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
indeno(1,2,3-cd)pyrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
dibenzo(a,h)anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
benzo(g,h,i)perylene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**29**	21-100	%	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
phenol-D5 SUR	**17**	10-102	%	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
2,4,6-tribromophenol SUR	**85**	10-123	%	1	AJD	6/2/15	7900	6/4/15	13:00	SW3510C8270D
nitrobenzene-D5 SUR	**71**	35-114	%	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
2-fluorobiphenyl SUR	**82**	43-116	%	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D
p-terphenyl-D14 SUR	**81**	33-141	%	1	AJD	6/2/15	7900	6/3/15	12:54	SW3510C8270D

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-004
Sample ID: CA-MW-4
Matrix: Water
Sampled: 5/27/15 12:35

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
aniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
phenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
2-chlorophenol	< 5	5	ug/L	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
bis(2-chloroethyl)ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
1,3-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
1,4-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
1,2-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
benzyl alcohol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
2-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
bis(2-chloroisopropyl) ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
hexachloroethane	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
N-nitroso-di-N-propylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
4-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
nitrobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
isophorone	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
2-nitrophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
2,4-dimethylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
bis(2-chloroethoxy)methane	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
2,4-dichlorophenol	< 5	5	ug/L	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
1,2,4-trichlorobenzene	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
naphthalene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
benzoic acid	< 50	50	ug/L	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
4-chloroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
hexachlorobutadiene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
4-chloro-3-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
2-methylnaphthalene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
hexachlorocyclopentadiene	< 10	10	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
2,4,6-trichlorophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
2,4,5-trichlorophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
2-chloronaphthalene	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
2-nitroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
acenaphthylene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
dimethylphthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
2,6-dinitrotoluene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
2,4-dinitrotoluene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
acenaphthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
3-nitroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
2,4-dinitrophenol	< 50	50	ug/L	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
dibenzofuran	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
4-nitrophenol	< 10	10	ug/L	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
fluorene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
diethyl phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-004
Sample ID: CA-MW-4
Matrix: Water
Sampled: 5/27/15 12:35

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
4-nitroaniline	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
4,6-dinitro-2-methylphenol	< 20	20	ug/L	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
azobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
N-nitrosodiphenylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
4-bromophenyl phenyl ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
hexachlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
pentachlorophenol	< 10	10	ug/L	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
phenanthrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
carbazole	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
di-n-butylphthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
fluoranthene	**0.6**	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
benzidine	< 30	30	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
pyrene	**0.8**	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
butyl benzyl phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
benzo(a)anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
chrysene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
3,3'-dichlorobenzidine	< 30	30	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
bis(2-ethylhexyl)phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
di-n-octyl phthalate	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
benzo(b)fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
benzo(k)fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
benzo(a)pyrene	**0.3**	0.2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
indeno(1,2,3-cd)pyrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
dibenzo(a,h)anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
benzo(g,h,i)perylene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**31**	21-100	%	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
phenol-D5 SUR	**19**	10-102	%	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
2,4,6-tribromophenol SUR	**100**	10-123	%	1	AJD	6/2/15	7900	6/4/15	13:37	SW3510C8270D
nitrobenzene-D5 SUR	**75**	35-114	%	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
2-fluorobiphenyl SUR	**88**	43-116	%	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D
p-terphenyl-D14 SUR	**78**	33-141	%	1	AJD	6/2/15	7900	6/3/15	17:52	SW3510C8270D

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-005
Sample ID: CA-MW-5
Matrix: Water
Sampled: 5/27/15 9:50

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
aniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
phenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
2-chlorophenol	< 5	5	ug/L	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
bis(2-chloroethyl)ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
1,3-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
1,4-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
1,2-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
benzyl alcohol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
2-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
bis(2-chloroisopropyl) ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
hexachloroethane	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
N-nitroso-di-N-propylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
4-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
nitrobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
isophorone	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
2-nitrophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
2,4-dimethylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
bis(2-chloroethoxy)methane	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
2,4-dichlorophenol	< 5	5	ug/L	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
1,2,4-trichlorobenzene	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
naphthalene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
benzoic acid	< 50	50	ug/L	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
4-chloroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
hexachlorobutadiene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
4-chloro-3-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
2-methylnaphthalene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
hexachlorocyclopentadiene	< 10	10	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
2,4,6-trichlorophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
2,4,5-trichlorophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
2-chloronaphthalene	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
2-nitroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
acenaphthylene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
dimethylphthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
2,6-dinitrotoluene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
2,4-dinitrotoluene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
acenaphthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
3-nitroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
2,4-dinitrophenol	< 50	50	ug/L	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
dibenzofuran	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
4-nitrophenol	< 10	10	ug/L	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
fluorene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
diethyl phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-005
Sample ID: CA-MW-5
Matrix: Water
Sampled: 5/27/15 9:50

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
4-nitroaniline	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
4,6-dinitro-2-methylphenol	< 20	20	ug/L	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
azobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
N-nitrosodiphenylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
4-bromophenyl phenyl ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
hexachlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
pentachlorophenol	< 10	10	ug/L	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
phenanthrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
carbazole	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
di-n-butylphthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
benzidine	< 30	30	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
pyrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
butyl benzyl phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
benzo(a)anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
chrysene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
3,3'-dichlorobenzidine	< 30	30	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
bis(2-ethylhexyl)phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
di-n-octyl phthalate	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
benzo(b)fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
benzo(k)fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
benzo(a)pyrene	< 0.2	0.2	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
indeno(1,2,3-cd)pyrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
dibenzo(a,h)anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
benzo(g,h,i)perylene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**29**	21-100	%	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
phenol-D5 SUR	**18**	10-102	%	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
2,4,6-tribromophenol SUR	**90**	10-123	%	1	AJD	6/2/15	7900	6/4/15	14:14	SW3510C8270D
nitrobenzene-D5 SUR	**72**	35-114	%	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
2-fluorobiphenyl SUR	**84**	43-116	%	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D
p-terphenyl-D14 SUR	**78**	33-141	%	1	AJD	6/2/15	7900	6/3/15	15:23	SW3510C8270D

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-006
Sample ID: CA-MW-8
Matrix: Water
Sampled: 5/27/15 14:35

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
aniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
phenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
2-chlorophenol	< 5	5	ug/L	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
bis(2-chloroethyl)ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
1,3-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
1,4-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
1,2-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
benzyl alcohol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
2-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
bis(2-chloroisopropyl) ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
hexachloroethane	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
N-nitroso-di-N-propylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
4-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
nitrobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
isophorone	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
2-nitrophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
2,4-dimethylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
bis(2-chloroethoxy)methane	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
2,4-dichlorophenol	< 5	5	ug/L	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
1,2,4-trichlorobenzene	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
naphthalene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
benzoic acid	< 50	50	ug/L	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
4-chloroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
hexachlorobutadiene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
4-chloro-3-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
2-methylnaphthalene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
hexachlorocyclopentadiene	< 10	10	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
2,4,6-trichlorophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
2,4,5-trichlorophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
2-chloronaphthalene	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
2-nitroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
acenaphthylene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
dimethylphthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
2,6-dinitrotoluene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
2,4-dinitrotoluene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
acenaphthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
3-nitroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
2,4-dinitrophenol	< 50	50	ug/L	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
dibenzofuran	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
4-nitrophenol	< 10	10	ug/L	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
fluorene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
diethyl phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-006
Sample ID: CA-MW-8
Matrix: Water
Sampled: 5/27/15 14:35

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
4-nitroaniline	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
4,6-dinitro-2-methylphenol	< 20	20	ug/L	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
azobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
N-nitrosodiphenylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
4-bromophenyl phenyl ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
hexachlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
pentachlorophenol	< 10	10	ug/L	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
phenanthrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
carbazole	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
di-n-butylphthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
benzidine	< 30	30	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
pyrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
butyl benzyl phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
benzo(a)anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
chrysene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
3,3'-dichlorobenzidine	< 30	30	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
bis(2-ethylhexyl)phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
di-n-octyl phthalate	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
benzo(b)fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
benzo(k)fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
benzo(a)pyrene	< 0.2	0.2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
indeno(1,2,3-cd)pyrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
dibenzo(a,h)anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
benzo(g,h,i)perylene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**28**	21-100	%	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
phenol-D5 SUR	**17**	10-102	%	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
2,4,6-tribromophenol SUR	**78**	10-123	%	1	AJD	6/2/15	7900	6/4/15	14:51	SW3510C8270D
nitrobenzene-D5 SUR	**76**	35-114	%	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
2-fluorobiphenyl SUR	**89**	43-116	%	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D
p-terphenyl-D14 SUR	**90**	33-141	%	1	AJD	6/2/15	7900	6/3/15	16:00	SW3510C8270D

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-007
Sample ID: CA-MW-9
Matrix: Water
Sampled: 5/27/15 9:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
aniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
phenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
2-chlorophenol	< 5	5	ug/L	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
bis(2-chloroethyl)ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
1,3-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
1,4-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
1,2-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
benzyl alcohol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
2-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
bis(2-chloroisopropyl) ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
hexachloroethane	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
N-nitroso-di-N-propylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
4-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
nitrobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
isophorone	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
2-nitrophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
2,4-dimethylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
bis(2-chloroethoxy)methane	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
2,4-dichlorophenol	< 5	5	ug/L	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
1,2,4-trichlorobenzene	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
naphthalene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
benzoic acid	< 50	50	ug/L	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
4-chloroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
hexachlorobutadiene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
4-chloro-3-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
2-methylnaphthalene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
hexachlorocyclopentadiene	< 10	10	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
2,4,6-trichlorophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
2,4,5-trichlorophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
2-chloronaphthalene	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
2-nitroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
acenaphthylene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
dimethylphthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
2,6-dinitrotoluene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
2,4-dinitrotoluene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
acenaphthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
3-nitroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
2,4-dinitrophenol	< 50	50	ug/L	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
dibenzofuran	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
4-nitrophenol	< 10	10	ug/L	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
fluorene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
diethyl phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-007
Sample ID: CA-MW-9
Matrix: Water
Sampled: 5/27/15 9:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
4-nitroaniline	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
4,6-dinitro-2-methylphenol	< 20	20	ug/L	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
azobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
N-nitrosodiphenylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
4-bromophenyl phenyl ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
hexachlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
pentachlorophenol	< 10	10	ug/L	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
phenanthrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
carbazole	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
di-n-butylphthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
benzidine	< 30	30	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
pyrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
butyl benzyl phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
benzo(a)anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
chrysene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
3,3'-dichlorobenzidine	< 30	30	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
bis(2-ethylhexyl)phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
di-n-octyl phthalate	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
benzo(b)fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
benzo(k)fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
benzo(a)pyrene	< 0.2	0.2	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
indeno(1,2,3-cd)pyrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
dibenzo(a,h)anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
benzo(g,h,i)perylene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**19** *	21-100	%	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
phenol-D5 SUR	**12**	10-102	%	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
2,4,6-tribromophenol SUR	**53**	10-123	%	1	AJD	6/2/15	7900	6/4/15	15:28	SW3510C8270D
nitrobenzene-D5 SUR	**78**	35-114	%	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
2-fluorobiphenyl SUR	**91**	43-116	%	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D
p-terphenyl-D14 SUR	**87**	33-141	%	1	AJD	6/2/15	7900	6/3/15	16:37	SW3510C8270D

**** The surrogate showed recovery outside the acceptance limits. Matrix interference suspected. No additional sample remains for re-analysis.***

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-008
Sample ID: CA-MW-DUP
Matrix: Water
Sampled: 5/27/15 11:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
N-nitrosodimethylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
aniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
phenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
2-chlorophenol	< 5	5	ug/L	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
bis(2-chloroethyl)ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
1,3-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
1,4-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
1,2-dichlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
benzyl alcohol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
2-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
bis(2-chloroisopropyl) ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
hexachloroethane	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
N-nitroso-di-N-propylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
4-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
nitrobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
isophorone	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
2-nitrophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
2,4-dimethylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
bis(2-chloroethoxy)methane	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
2,4-dichlorophenol	< 5	5	ug/L	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
1,2,4-trichlorobenzene	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
naphthalene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
benzoic acid	< 50	50	ug/L	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
4-chloroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
hexachlorobutadiene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
4-chloro-3-methylphenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
2-methylnaphthalene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
hexachlorocyclopentadiene	< 10	10	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
2,4,6-trichlorophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
2,4,5-trichlorophenol	< 2	2	ug/L	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
2-chloronaphthalene	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
2-nitroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
acenaphthylene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
dimethylphthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
2,6-dinitrotoluene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
2,4-dinitrotoluene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
acenaphthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
3-nitroaniline	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
2,4-dinitrophenol	< 50	50	ug/L	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
dibenzofuran	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
4-nitrophenol	< 10	10	ug/L	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
fluorene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
diethyl phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D

Project ID: MADEIRA 14001247
Job ID: 33130
Sample#: 33130-008
Sample ID: CA-MW-DUP
Matrix: Water
Sampled: 5/27/15 11:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
4-chlorophenyl phenyl ether	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
4-nitroaniline	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
4,6-dinitro-2-methylphenol	< 20	20	ug/L	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
azobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
N-nitrosodiphenylamine	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
4-bromophenyl phenyl ether	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
hexachlorobenzene	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
pentachlorophenol	< 10	10	ug/L	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
phenanthrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
carbazole	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
di-n-butylphthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
benzidine	< 30	30	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
pyrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
butyl benzyl phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
benzo(a)anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
chrysene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
3,3'-dichlorobenzidine	< 30	30	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
bis(2-ethylhexyl)phthalate	< 5	5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
di-n-octyl phthalate	< 2	2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
benzo(b)fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
benzo(k)fluoranthene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
benzo(a)pyrene	< 0.2	0.2	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
indeno(1,2,3-cd)pyrene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
dibenzo(a,h)anthracene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
benzo(g,h,i)perylene	< 0.5	0.5	ug/L	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**29**	21-100	%	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
phenol-D5 SUR	**18**	10-102	%	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
2,4,6-tribromophenol SUR	**88**	10-123	%	1	AJD	6/2/15	7900	6/4/15	16:05	SW3510C8270D
nitrobenzene-D5 SUR	**69**	35-114	%	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
2-fluorobiphenyl SUR	**78**	43-116	%	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D
p-terphenyl-D14 SUR	**83**	33-141	%	1	AJD	6/2/15	7900	6/3/15	17:15	SW3510C8270D

Project ID: MADEIRA 14001247

Job ID: 33130

Sample#: 33130-001

Sample ID: CA-MW-1

Matrix: Water

Sampled: 5/27/15 11:15

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	< 0.008	0.008	mg/L	1	AC	6/2/15	7895	6/2/15	19:52	SW3005A6010C
Barium	**0.41**	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	19:52	SW3005A6010C
Cadmium	< 0.004	0.004	mg/L	1	AC	6/2/15	7895	6/2/15	19:52	SW3005A6010C
Chromium	< 0.05	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	19:52	SW3005A6010C
Lead	< 0.008	0.008	mg/L	1	AC	6/2/15	7895	6/2/15	19:52	SW3005A6010C
Mercury	< 0.0002	0.0002	mg/L	1	AC	6/5/15	7915	6/5/15	16:07	SW7470A
Selenium	< 0.05	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	19:52	SW3005A6010C
Silver	< 0.007	0.007	mg/L	1	AC	6/2/15	7895	6/2/15	19:52	SW3005A6010C

Sample#: 33130-002

Sample ID: CA-MW-2

Matrix: Water

Sampled: 5/27/15 12:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	< 0.008	0.008	mg/L	1	AC	6/2/15	7895	6/2/15	19:59	SW3005A6010C
Barium	**0.08**	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	19:59	SW3005A6010C
Cadmium	< 0.004	0.004	mg/L	1	AC	6/2/15	7895	6/2/15	19:59	SW3005A6010C
Chromium	< 0.05	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	19:59	SW3005A6010C
Lead	< 0.008	0.008	mg/L	1	AC	6/2/15	7895	6/2/15	19:59	SW3005A6010C
Mercury	< 0.0002	0.0002	mg/L	1	AC	6/5/15	7915	6/5/15	16:09	SW7470A
Selenium	< 0.05	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	19:59	SW3005A6010C
Silver	< 0.007	0.007	mg/L	1	AC	6/2/15	7895	6/2/15	19:59	SW3005A6010C

Sample#: 33130-003

Sample ID: CA-MW-3

Matrix: Water

Sampled: 5/27/15 11:20

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	< 0.008	0.008	mg/L	1	AC	6/2/15	7895	6/2/15	20:07	SW3005A6010C
Barium	< 0.05	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	20:07	SW3005A6010C
Cadmium	< 0.004	0.004	mg/L	1	AC	6/2/15	7895	6/2/15	20:07	SW3005A6010C
Chromium	< 0.05	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	20:07	SW3005A6010C
Lead	< 0.008	0.008	mg/L	1	AC	6/2/15	7895	6/2/15	20:07	SW3005A6010C
Mercury	< 0.0002	0.0002	mg/L	1	AC	6/5/15	7915	6/5/15	16:11	SW7470A
Selenium	< 0.05	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	20:07	SW3005A6010C
Silver	< 0.007	0.007	mg/L	1	AC	6/2/15	7895	6/2/15	20:07	SW3005A6010C

Project ID: MADEIRA 14001247

Job ID: 33130

Sample#: 33130-004

Sample ID: CA-MW-4

Matrix: Water

Sampled: 5/27/15 12:35

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	< 0.008	0.008	mg/L	1	AC	6/2/15	7895	6/2/15	20:14	SW3005A6010C
Barium	**0.09**	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	20:14	SW3005A6010C
Cadmium	< 0.004	0.004	mg/L	1	AC	6/2/15	7895	6/2/15	20:14	SW3005A6010C
Chromium	< 0.05	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	20:14	SW3005A6010C
Lead	< 0.008	0.008	mg/L	1	AC	6/2/15	7895	6/2/15	20:14	SW3005A6010C
Mercury	< 0.0002	0.0002	mg/L	1	AC	6/5/15	7915	6/5/15	16:27	SW7470A
Selenium	< 0.05	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	20:14	SW3005A6010C
Silver	< 0.007	0.007	mg/L	1	AC	6/2/15	7895	6/2/15	20:14	SW3005A6010C

Sample#: 33130-005

Sample ID: CA-MW-5

Matrix: Water

Sampled: 5/27/15 9:50

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	< 0.008	0.008	mg/L	1	AC	6/2/15	7895	6/2/15	20:21	SW3005A6010C
Barium	**0.12**	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	20:21	SW3005A6010C
Cadmium	< 0.004	0.004	mg/L	1	AC	6/2/15	7895	6/2/15	20:21	SW3005A6010C
Chromium	< 0.05	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	20:21	SW3005A6010C
Lead	< 0.008	0.008	mg/L	1	AC	6/2/15	7895	6/2/15	20:21	SW3005A6010C
Mercury	< 0.0002	0.0002	mg/L	1	AC	6/5/15	7915	6/5/15	16:13	SW7470A
Selenium	< 0.05	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	20:21	SW3005A6010C
Silver	< 0.007	0.007	mg/L	1	AC	6/2/15	7895	6/2/15	20:21	SW3005A6010C

Sample#: 33130-006

Sample ID: CA-MW-8

Matrix: Water

Sampled: 5/27/15 14:35

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	< 0.008	0.008	mg/L	1	AC	6/2/15	7895	6/2/15	20:28	SW3005A6010C
Barium	**0.07**	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	20:28	SW3005A6010C
Cadmium	< 0.004	0.004	mg/L	1	AC	6/2/15	7895	6/2/15	20:28	SW3005A6010C
Chromium	< 0.05	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	20:28	SW3005A6010C
Lead	< 0.008	0.008	mg/L	1	AC	6/2/15	7895	6/2/15	20:28	SW3005A6010C
Mercury	< 0.0002	0.0002	mg/L	1	AC	6/5/15	7915	6/5/15	16:15	SW7470A
Selenium	< 0.05	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	20:28	SW3005A6010C
Silver	< 0.007	0.007	mg/L	1	AC	6/2/15	7895	6/2/15	20:28	SW3005A6010C

Project ID: MADEIRA 14001247
Job ID: 33130

Sample#: 33130-007
Sample ID: CA-MW-9
Matrix: Water
Sampled: 5/27/15 9:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	< 0.008	0.008	mg/L	1	AC	6/2/15	7895	6/2/15	20:35	SW3005A6010C
Barium	< 0.05	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	20:35	SW3005A6010C
Cadmium	< 0.004	0.004	mg/L	1	AC	6/2/15	7895	6/2/15	20:35	SW3005A6010C
Chromium	< 0.05	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	20:35	SW3005A6010C
Lead	< 0.008	0.008	mg/L	1	AC	6/2/15	7895	6/2/15	20:35	SW3005A6010C
Mercury	< 0.0002	0.0002	mg/L	1	AC	6/5/15	7915	6/5/15	16:16	SW7470A
Selenium	< 0.05	0.05	mg/L	1	AC	6/2/15	7895	6/2/15	20:35	SW3005A6010C
Silver	< 0.007	0.007	mg/L	1	AC	6/2/15	7895	6/2/15	20:35	SW3005A6010C

Sample#: 33130-008
Sample ID: CA-MW-DUP
Matrix: Water
Sampled: 5/27/15 11:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	< 0.008	0.008	mg/L	1	AC	6/4/15	7907	6/4/15	18:34	SW3005A6010C
Barium	< 0.05	0.05	mg/L	1	AC	6/4/15	7907	6/4/15	18:34	SW3005A6010C
Cadmium	< 0.004	0.004	mg/L	1	AC	6/4/15	7907	6/4/15	18:34	SW3005A6010C
Chromium	< 0.05	0.05	mg/L	1	AC	6/4/15	7907	6/4/15	18:34	SW3005A6010C
Lead	< 0.008	0.008	mg/L	1	AC	6/4/15	7907	6/4/15	18:34	SW3005A6010C
Mercury	< 0.0002	0.0002	mg/L	1	AC	6/5/15	7915	6/5/15	16:18	SW7470A
Selenium	< 0.05	0.05	mg/L	1	AC	6/4/15	7907	6/4/15	18:34	SW3005A6010C
Silver	< 0.007	0.007	mg/L	1	AC	6/4/15	7907	6/4/15	18:34	SW3005A6010C

Quality Control Report

124 Heritage Avenue Unit 16
Portsmouth, NH 03801
www.absoluteresourceassociates.com

Case Narrative
Lab # 33130

Sample Receiving and Chain of Custody Discrepancies

Samples were received in acceptable condition, at 2 degrees C, on ice, and in accordance with sample handling, preservation and integrity guidelines.

Calibration

No exceptions noted.

Method Blank

No exceptions noted.

Surrogate Recoveries

SVOC: The surrogate, 2-fluorophenol, for sample 33130-007 was outside the acceptance limits. All other QC was acceptable. No additional sample volume remains for re-analysis. Matrix interference suspected.

Laboratory Control Sample Results

VOC: The LCS/D1501295 did not meet the acceptance criteria for 2,2-dichloropropane. Since <10% of the compounds were outside of the acceptance criteria, reanalysis is not required.
SVOC: The LCS/D7900 did not meet the acceptance criteria for N-nitrosodimethylamine, phenol, and hexachlorocyclopentadiene. Since <10% of the compounds were outside of the acceptance criteria, reanalysis is not required. The relative percent difference between the LCS and LCSD7900 was outside the acceptance criteria for hexachloroethane, hexachlorobutadiene, and dimethylphthalate. The percent recovery for these analytes in each QC parameter was within the acceptance criteria. No impact to the data suspected.

Matrix Spike/Matrix Spike Duplicate/Duplicate Results

No exceptions noted.

Other

Reporting Limits: Dilutions performed during the analysis are noted on the result pages.

No other exceptions noted.

- QC Report -

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits	RPD	RPD Limit
SW5030C8260C	BLK1501292	dichlorodifluoromethane		<	2	ug/L					
		chloromethane		<	2	ug/L					
		vinyl chloride		<	2	ug/L					
		bromomethane		<	2	ug/L					
		chloroethane		<	2	ug/L					
		trichlorofluoromethane		<	2	ug/L					
		diethyl ether		<	10	ug/L					
		acetone		<	50	ug/L					
		1,1-dichloroethene		<	1	ug/L					
		methylene chloride		<	5	ug/L					
		carbon disulfide		<	2	ug/L					
		methyl t-butyl ether (MTBE)		<	2	ug/L					
		trans-1,2-dichloroethene		<	2	ug/L					
		isopropyl ether (DIPE)		<	2	ug/L					
		ethyl t-butyl ether (ETBE)		<	2	ug/L					
		1,1-dichloroethane		<	2	ug/L					
		t-butanol (TBA)		<	30	ug/L					
		2-butanone (MEK)		<	10	ug/L					
		2,2-dichloropropane		<	2	ug/L					
		cis-1,2-dichloroethene		<	2	ug/L					
		chloroform		<	2	ug/L					
		bromochloromethane		<	2	ug/L					
		tetrahydrofuran (THF)		<	10	ug/L					
		1,1,1-trichloroethane		<	2	ug/L					
		1,1-dichloropropene		<	2	ug/L					
		t-amyl-methyl ether (TAME)		<	2	ug/L					
		carbon tetrachloride		<	2	ug/L					
		1,2-dichloroethane		<	2	ug/L					
		benzene		<	2	ug/L					
		trichloroethene		<	2	ug/L					
		1,2-dichloropropane		<	2	ug/L					
		bromodichloromethane		<	0.6	ug/L					
		1,4-dioxane		<	50	ug/L					
		dibromomethane		<	2	ug/L					
		4-methyl-2-pentanone (MIBK)		<	10	ug/L					
		cis-1,3-dichloropropene		<	2	ug/L					
		toluene		<	2	ug/L					
		trans-1,3-dichloropropene		<	2	ug/L					
		2-hexanone		<	10	ug/L					
		1,1,2-trichloroethane		<	2	ug/L					
		1,3-dichloropropane		<	2	ug/L					
		tetrachloroethene		<	2	ug/L					
		dibromochloromethane		<	2	ug/L					
		1,2-dibromoethane (EDB)		<	2	ug/L					
		chlorobenzene		<	2	ug/L					
		1,1,1,2-tetrachloroethane		<	2	ug/L					
		ethylbenzene		<	2	ug/L					
		m&p-xylenes		<	2	ug/L					
		o-xylene		<	2	ug/L					
		styrene		<	2	ug/L					

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW5030C8260C	BLK1501292	bromoform		<	2	ug/L						
		isopropylbenzene		<	2	ug/L						
		1,1,2,2-tetrachloroethane		<	2	ug/L						
		1,2,3-trichloropropane		<	2	ug/L						
		n-propylbenzene		<	2	ug/L						
		bromobenzene		<	2	ug/L						
		1,3,5-trimethylbenzene		<	2	ug/L						
		2-chlorotoluene		<	2	ug/L						
		4-chlorotoluene		<	2	ug/L						
		tert-butylbenzene		<	2	ug/L						
		1,2,4-trimethylbenzene		<	2	ug/L						
		sec-butylbenzene		<	2	ug/L						
		1,3-dichlorobenzene		<	2	ug/L						
		4-isopropyltoluene		<	2	ug/L						
		1,4-dichlorobenzene		<	2	ug/L						
		1,2-dichlorobenzene		<	2	ug/L						
		n-butylbenzene		<	2	ug/L						
		1,2-dibromo-3-chloropropane (DBCP)		<	2	ug/L						
		1,2,4-trichlorobenzene		<	2	ug/L						
		1,3,5-trichlorobenzene		<	2	ug/L						
		hexachlorobutadiene		<	0.5	ug/L						
		naphthalene		<	5	ug/L						
		1,2,3-trichlorobenzene		<	2	ug/L						
		dibromofluoromethane SUR			98	%			78	114		
		toluene-D8 SUR			97	%			88	110		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW5030C8260C	LCS1501292	dichlorodifluoromethane			16	ug/L	20	82	70	130		
		chloromethane			19	ug/L	20	93	70	130		
		vinyl chloride			18	ug/L	20	92	70	130		
		bromomethane			22	ug/L	20	109	70	130		
		chloroethane			20	ug/L	20	98	70	130		
		trichlorofluoromethane			20	ug/L	20	100	70	130		
		diethyl ether			22	ug/L	20	108	70	130		
		acetone		<	50	ug/L	20	91				
		1,1-dichloroethene			18	ug/L	20	90	70	130		
		methylene chloride			19	ug/L	20	95	70	130		
		carbon disulfide			20	ug/L	20	101	70	130		
		methyl t-butyl ether (MTBE)			19	ug/L	20	97	70	130		
		trans-1,2-dichloroethene			19	ug/L	20	93	70	130		
		isopropyl ether (DIPE)			20	ug/L	20	100	70	130		
		ethyl t-butyl ether (ETBE)			19	ug/L	20	97	70	130		
		1,1-dichloroethane			19	ug/L	20	96	70	130		
		t-butanol (TBA)			88	ug/L	100	88	70	130		
		2-butanone (MEK)			17	ug/L	20	87	70	130		
		2,2-dichloropropane			18	ug/L	20	89	70	130		
		cis-1,2-dichloroethene			20	ug/L	20	99	70	130		
		chloroform			20	ug/L	20	98	70	130		
		bromochloromethane			19	ug/L	20	96	70	130		
		tetrahydrofuran (THF)			18	ug/L	20	88	70	130		
		1,1,1-trichloroethane			20	ug/L	20	99	70	130		
		1,1-dichloropropene			20	ug/L	20	99	70	130		
		t-amyl-methyl ether (TAME)			20	ug/L	20	99	70	130		
		carbon tetrachloride			19	ug/L	20	94	70	130		
		1,2-dichloroethane			20	ug/L	20	98	70	130		
		benzene			20	ug/L	20	101	70	130		
		trichloroethene			19	ug/L	20	97	70	130		
		1,2-dichloropropane			20	ug/L	20	98	70	130		
		bromodichloromethane			19	ug/L	20	95	70	130		
		1,4-dioxane		<	50	ug/L	40	98	70	130		
		dibromomethane			20	ug/L	20	99	70	130		
		4-methyl-2-pentanone (MIBK)			17	ug/L	20	84	70	130		
		cis-1,3-dichloropropene			20	ug/L	20	98	70	130		
		toluene			20	ug/L	20	101	70	130		
		trans-1,3-dichloropropene			18	ug/L	20	92	70	130		
		2-hexanone			17	ug/L	20	84	70	130		
		1,1,2-trichloroethane			21	ug/L	20	103	70	130		
		1,3-dichloropropane			20	ug/L	20	100	70	130		
		tetrachloroethene			20	ug/L	20	99	70	130		
		dibromochloromethane			18	ug/L	20	91	70	130		
		1,2-dibromoethane (EDB)			20	ug/L	20	98	70	130		
		chlorobenzene			21	ug/L	20	103	70	130		
		1,1,1,2-tetrachloroethane			19	ug/L	20	97	70	130		
		ethylbenzene			20	ug/L	20	99	70	130		
		m&p-xylenes			40	ug/L	40	100	70	130		
		o-xylene			21	ug/L	20	103	70	130		
		styrene			21	ug/L	20	105	70	130		
		bromoform			17	ug/L	20	86	70	130		

Method	QC ID	Parameter	Associated Sample	Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW5030C8260C	LCS1501292	isopropylbenzene		21	ug/L	20	104	70	130		
		1,1,2,2-tetrachloroethane		20	ug/L	20	99	70	130		
		1,2,3-trichloropropane		21	ug/L	20	103	70	130		
		n-propylbenzene		21	ug/L	20	103	70	130		
		bromobenzene		20	ug/L	20	99	70	130		
		1,3,5-trimethylbenzene		20	ug/L	20	101	70	130		
		2-chlorotoluene		21	ug/L	20	103	70	130		
		4-chlorotoluene		20	ug/L	20	100	70	130		
		tert-butylbenzene		21	ug/L	20	105	70	130		
		1,2,4-trimethylbenzene		20	ug/L	20	101	70	130		
		sec-butylbenzene		20	ug/L	20	102	70	130		
		1,3-dichlorobenzene		20	ug/L	20	101	70	130		
		4-isopropyltoluene		20	ug/L	20	101	70	130		
		1,4-dichlorobenzene		20	ug/L	20	101	70	130		
		1,2-dichlorobenzene		20	ug/L	20	99	70	130		
		n-butylbenzene		21	ug/L	20	104	70	130		
		1,2-dibromo-3-chloropropane (DBCP)		16	ug/L	20	82	70	130		
		1,2,4-trichlorobenzene		20	ug/L	20	100	70	130		
		1,3,5-trichlorobenzene		20	ug/L	20	101	70	130		
		hexachlorobutadiene		18	ug/L	20	91	70	130		
		naphthalene		19	ug/L	20	93	70	130		
		1,2,3-trichlorobenzene		19	ug/L	20	96	70	130		
		dibromofluoromethane SUR		101	%			78	114		
		toluene-D8 SUR		100	%			88	110		
		4-bromofluorobenzene SUR		101	%			86	115		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW5030C8260C	LCSD1501292	dichlorodifluoromethane			16	ug/L	20	82	70	130	0	20
		chloromethane			19	ug/L	20	97	70	130	3	20
		vinyl chloride			19	ug/L	20	94	70	130	2	20
		bromomethane			24	ug/L	20	118	70	130	8	20
		chloroethane			20	ug/L	20	102	70	130	4	20
		trichlorofluoromethane			21	ug/L	20	103	70	130	3	20
		diethyl ether			21	ug/L	20	105	70	130	3	20
		acetone		<	50	ug/L	20	94			4	20
		1,1-dichloroethene			18	ug/L	20	89	70	130	1	20
		methylene chloride			19	ug/L	20	97	70	130	2	20
		carbon disulfide			21	ug/L	20	106	70	130	5	20
		methyl t-butyl ether (MTBE)			20	ug/L	20	98	70	130	1	20
		trans-1,2-dichloroethene			19	ug/L	20	94	70	130	1	20
		isopropyl ether (DIPE)			20	ug/L	20	100	70	130	1	20
		ethyl t-butyl ether (ETBE)			19	ug/L	20	97	70	130	0	20
		1,1-dichloroethane			19	ug/L	20	96	70	130	1	20
		t-butanol (TBA)			91	ug/L	100	91	70	130	3	20
		2-butanone (MEK)			18	ug/L	20	90	70	130	3	20
		2,2-dichloropropane			18	ug/L	20	91	70	130	2	20
		cis-1,2-dichloroethene			20	ug/L	20	99	70	130	0	20
		chloroform			20	ug/L	20	99	70	130	1	20
		bromochloromethane			19	ug/L	20	95	70	130	1	20
		tetrahydrofuran (THF)			18	ug/L	20	90	70	130	2	20
		1,1,1-trichloroethane			21	ug/L	20	103	70	130	4	20
		1,1-dichloropropene			20	ug/L	20	98	70	130	1	20
		t-amyl-methyl ether (TAME)			20	ug/L	20	101	70	130	2	20
		carbon tetrachloride			19	ug/L	20	97	70	130	4	20
		1,2-dichloroethane			20	ug/L	20	98	70	130	0	20
		benzene			20	ug/L	20	101	70	130	0	20
		trichloroethene			20	ug/L	20	100	70	130	2	20
		1,2-dichloropropane			20	ug/L	20	100	70	130	2	20
		bromodichloromethane			19	ug/L	20	97	70	130	2	20
		1,4-dioxane		<	50	ug/L	40	92	70	130	6	20
		dibromomethane			20	ug/L	20	98	70	130	0	20
		4-methyl-2-pentanone (MIBK)			17	ug/L	20	85	70	130	2	20
		cis-1,3-dichloropropene			20	ug/L	20	100	70	130	2	20
		toluene			21	ug/L	20	103	70	130	1	20
		trans-1,3-dichloropropene			19	ug/L	20	95	70	130	3	20
		2-hexanone			18	ug/L	20	88	70	130	5	20
		1,1,2-trichloroethane			20	ug/L	20	102	70	130	0	20
		1,3-dichloropropane			20	ug/L	20	102	70	130	1	20
		tetrachloroethene			20	ug/L	20	99	70	130	0	20
		dibromochloromethane			19	ug/L	20	93	70	130	2	20
		1,2-dibromoethane (EDB)			20	ug/L	20	99	70	130	1	20
		chlorobenzene			21	ug/L	20	103	70	130	0	20
		1,1,1,2-tetrachloroethane			20	ug/L	20	98	70	130	0	20
		ethylbenzene			20	ug/L	20	98	70	130	1	20
		m&p-xylenes			40	ug/L	40	100	70	130	0	20
		o-xylene			20	ug/L	20	102	70	130	1	20
		styrene			21	ug/L	20	104	70	130	2	20
		bromoform			17	ug/L	20	86	70	130	0	20

Method	QC ID	Parameter	Associated Sample	Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW5030C8260C	LCSD1501292	isopropylbenzene		21	ug/L	20	104	70	130	1	20
		1,1,2,2-tetrachloroethane		20	ug/L	20	101	70	130	2	20
		1,2,3-trichloropropane		20	ug/L	20	100	70	130	2	20
		n-propylbenzene		21	ug/L	20	103	70	130	0	20
		bromobenzene		20	ug/L	20	101	70	130	2	20
		1,3,5-trimethylbenzene		20	ug/L	20	101	70	130	0	20
		2-chlorotoluene		21	ug/L	20	104	70	130	1	20
		4-chlorotoluene		20	ug/L	20	100	70	130	0	20
		tert-butylbenzene		20	ug/L	20	99	70	130	5	20
		1,2,4-trimethylbenzene		20	ug/L	20	101	70	130	0	20
		sec-butylbenzene		21	ug/L	20	103	70	130	0	20
		1,3-dichlorobenzene		20	ug/L	20	100	70	130	0	20
		4-isopropyltoluene		21	ug/L	20	103	70	130	1	20
		1,4-dichlorobenzene		20	ug/L	20	101	70	130	0	20
		1,2-dichlorobenzene		20	ug/L	20	98	70	130	1	20
		n-butylbenzene		21	ug/L	20	105	70	130	2	20
		1,2-dibromo-3-chloropropane (DBCP)		17	ug/L	20	87	70	130	6	20
		1,2,4-trichlorobenzene		20	ug/L	20	98	70	130	2	20
		1,3,5-trichlorobenzene		20	ug/L	20	100	70	130	1	20
		hexachlorobutadiene		19	ug/L	20	95	70	130	5	20
		naphthalene		19	ug/L	20	96	70	130	3	20
		1,2,3-trichlorobenzene		19	ug/L	20	96	70	130	0	20
		dibromofluoromethane SUR		100	%			78	114		
		toluene-D8 SUR		98	%			88	110		
		4-bromofluorobenzene SUR		98	%			86	115		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits	RPD	RPD Limit
SW5030C8260C	BLK1501295	dichlorodifluoromethane		<	2	ug/L					
		chloromethane		<	2	ug/L					
		vinyl chloride		<	2	ug/L					
		bromomethane		<	2	ug/L					
		chloroethane		<	2	ug/L					
		trichlorofluoromethane		<	2	ug/L					
		diethyl ether		<	10	ug/L					
		acetone		<	50	ug/L					
		1,1-dichloroethene		<	1	ug/L					
		methylene chloride		<	5	ug/L					
		carbon disulfide		<	2	ug/L					
		methyl t-butyl ether (MTBE)		<	2	ug/L					
		trans-1,2-dichloroethene		<	2	ug/L					
		isopropyl ether (DIPE)		<	2	ug/L					
		ethyl t-butyl ether (ETBE)		<	2	ug/L					
		1,1-dichloroethane		<	2	ug/L					
		t-butanol (TBA)		<	30	ug/L					
		2-butanone (MEK)		<	10	ug/L					
		2,2-dichloropropane		<	2	ug/L					
		cis-1,2-dichloroethene		<	2	ug/L					
		chloroform		<	2	ug/L					
		bromochloromethane		<	2	ug/L					
		tetrahydrofuran (THF)		<	10	ug/L					
		1,1,1-trichloroethane		<	2	ug/L					
		1,1-dichloropropene		<	2	ug/L					
		t-amyl-methyl ether (TAME)		<	2	ug/L					
		carbon tetrachloride		<	2	ug/L					
		1,2-dichloroethane		<	2	ug/L					
		benzene		<	2	ug/L					
		trichloroethene		<	2	ug/L					
		1,2-dichloropropane		<	2	ug/L					
		bromodichloromethane		<	0.6	ug/L					
		1,4-dioxane		<	50	ug/L					
		dibromomethane		<	2	ug/L					
		4-methyl-2-pentanone (MIBK)		<	10	ug/L					
		cis-1,3-dichloropropene		<	2	ug/L					
		toluene		<	2	ug/L					
		trans-1,3-dichloropropene		<	2	ug/L					
		2-hexanone		<	10	ug/L					
		1,1,2-trichloroethane		<	2	ug/L					
		1,3-dichloropropane		<	2	ug/L					
		tetrachloroethene		<	2	ug/L					
		dibromochloromethane		<	2	ug/L					
		1,2-dibromoethane (EDB)		<	2	ug/L					
		chlorobenzene		<	2	ug/L					
		1,1,1,2-tetrachloroethane		<	2	ug/L					
		ethylbenzene		<	2	ug/L					
		m&p-xylenes		<	2	ug/L					
		o-xylene		<	2	ug/L					
		styrene		<	2	ug/L					
		bromoform		<	2	ug/L					

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW5030C8260C	BLK1501295	isopropylbenzene		<	2	ug/L						
		1,1,2,2-tetrachloroethane		<	2	ug/L						
		1,2,3-trichloropropane		<	2	ug/L						
		n-propylbenzene		<	2	ug/L						
		bromobenzene		<	2	ug/L						
		1,3,5-trimethylbenzene		<	2	ug/L						
		2-chlorotoluene		<	2	ug/L						
		4-chlorotoluene		<	2	ug/L						
		tert-butylbenzene		<	2	ug/L						
		1,2,4-trimethylbenzene		<	2	ug/L						
		sec-butylbenzene		<	2	ug/L						
		1,3-dichlorobenzene		<	2	ug/L						
		4-isopropyltoluene		<	2	ug/L						
		1,4-dichlorobenzene		<	2	ug/L						
		1,2-dichlorobenzene		<	2	ug/L						
		n-butylbenzene		<	2	ug/L						
		1,2-dibromo-3-chloropropane (DBCP)		<	2	ug/L						
		1,2,4-trichlorobenzene		<	2	ug/L						
		1,3,5-trichlorobenzene		<	2	ug/L						
		hexachlorobutadiene		<	0.5	ug/L						
		naphthalene		<	5	ug/L						
		1,2,3-trichlorobenzene		<	2	ug/L						
		dibromofluoromethane SUR			102	%			78	114		
		toluene-D8 SUR			100	%			88	110		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R		Limits		RPD	RPD Limit
SW5030C8260C	LCS1501295	dichlorodifluoromethane			16	ug/L	20	79		70	130		
		chloromethane			18	ug/L	20	89		70	130		
		vinyl chloride			18	ug/L	20	90		70	130		
		bromomethane			18	ug/L	20	88		70	130		
		chloroethane			19	ug/L	20	96		70	130		
		trichlorofluoromethane			20	ug/L	20	98		70	130		
		diethyl ether			21	ug/L	20	103		70	130		
		acetone		<	50	ug/L	20	97					
		1,1-dichloroethene			17	ug/L	20	87		70	130		
		methylene chloride			20	ug/L	20	100		70	130		
		carbon disulfide			19	ug/L	20	93		70	130		
		methyl t-butyl ether (MTBE)			19	ug/L	20	95		70	130		
		trans-1,2-dichloroethene			19	ug/L	20	93		70	130		
		isopropyl ether (DIPE)			19	ug/L	20	97		70	130		
		ethyl t-butyl ether (ETBE)			19	ug/L	20	94		70	130		
		1,1-dichloroethane			18	ug/L	20	91		70	130		
		t-butanol (TBA)			86	ug/L	100	86		70	130		
		2-butanone (MEK)			18	ug/L	20	88		70	130		
		2,2-dichloropropane			13	ug/L	20	64	*	70	130		
		cis-1,2-dichloroethene			19	ug/L	20	97		70	130		
		chloroform			19	ug/L	20	96		70	130		
		bromochloromethane			20	ug/L	20	98		70	130		
		tetrahydrofuran (THF)			18	ug/L	20	89		70	130		
		1,1,1-trichloroethane			19	ug/L	20	96		70	130		
		1,1-dichloropropene			18	ug/L	20	92		70	130		
		t-amyl-methyl ether (TAME)			19	ug/L	20	94		70	130		
		carbon tetrachloride			18	ug/L	20	90		70	130		
		1,2-dichloroethane			19	ug/L	20	96		70	130		
		benzene			19	ug/L	20	97		70	130		
		trichloroethene			19	ug/L	20	95		70	130		
		1,2-dichloropropane			19	ug/L	20	93		70	130		
		bromodichloromethane			18	ug/L	20	91		70	130		
		1,4-dioxane		<	50	ug/L	40	91		70	130		
		dibromomethane			19	ug/L	20	95		70	130		
		4-methyl-2-pentanone (MIBK)			17	ug/L	20	85		70	130		
		cis-1,3-dichloropropene			18	ug/L	20	90		70	130		
		toluene			20	ug/L	20	99		70	130		
		trans-1,3-dichloropropene			17	ug/L	20	85		70	130		
		2-hexanone			17	ug/L	20	84		70	130		
		1,1,2-trichloroethane			20	ug/L	20	100		70	130		
		1,3-dichloropropane			19	ug/L	20	93		70	130		
		tetrachloroethene			18	ug/L	20	92		70	130		
		dibromochloromethane			17	ug/L	20	84		70	130		
		1,2-dibromoethane (EDB)			19	ug/L	20	93		70	130		
		chlorobenzene			19	ug/L	20	97		70	130		
		1,1,1,2-tetrachloroethane			18	ug/L	20	90		70	130		
		ethylbenzene			18	ug/L	20	91		70	130		
		m&p-xylenes			37	ug/L	40	93		70	130		
		o-xylene			19	ug/L	20	96		70	130		
		styrene			20	ug/L	20	98		70	130		
		bromoform			16	ug/L	20	79		70	130		

Method	QC ID	Parameter	Associated Sample	Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW5030C8260C	LCS1501295	isopropylbenzene		20	ug/L	20	98	70	130		
		1,1,2,2-tetrachloroethane		19	ug/L	20	96	70	130		
		1,2,3-trichloropropane		20	ug/L	20	98	70	130		
		n-propylbenzene		20	ug/L	20	98	70	130		
		bromobenzene		19	ug/L	20	96	70	130		
		1,3,5-trimethylbenzene		19	ug/L	20	95	70	130		
		2-chlorotoluene		20	ug/L	20	98	70	130		
		4-chlorotoluene		19	ug/L	20	95	70	130		
		tert-butylbenzene		20	ug/L	20	100	70	130		
		1,2,4-trimethylbenzene		19	ug/L	20	96	70	130		
		sec-butylbenzene		20	ug/L	20	98	70	130		
		1,3-dichlorobenzene		19	ug/L	20	96	70	130		
		4-isopropyltoluene		19	ug/L	20	97	70	130		
		1,4-dichlorobenzene		20	ug/L	20	98	70	130		
		1,2-dichlorobenzene		19	ug/L	20	97	70	130		
		n-butylbenzene		20	ug/L	20	98	70	130		
		1,2-dibromo-3-chloropropane (DBCP)		15	ug/L	20	77	70	130		
		1,2,4-trichlorobenzene		19	ug/L	20	94	70	130		
		1,3,5-trichlorobenzene		19	ug/L	20	95	70	130		
		hexachlorobutadiene		17	ug/L	20	85	70	130		
		naphthalene		19	ug/L	20	93	70	130		
		1,2,3-trichlorobenzene		18	ug/L	20	92	70	130		
		dibromofluoromethane SUR		102	%			78	114		
		toluene-D8 SUR		100	%			88	110		
		4-bromofluorobenzene SUR		99	%			86	115		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R		Limits		RPD	RPD Limit
SW5030C8260C	LCSD1501295	dichlorodifluoromethane			16	ug/L	20	78		70	130	1	20
		chloromethane			18	ug/L	20	90		70	130	1	20
		vinyl chloride			18	ug/L	20	91		70	130	1	20
		bromomethane			18	ug/L	20	92		70	130	4	20
		chloroethane			19	ug/L	20	95		70	130	2	20
		trichlorofluoromethane			19	ug/L	20	97		70	130	1	20
		diethyl ether			21	ug/L	20	106		70	130	3	20
		acetone		<	50	ug/L	20	109				12	20
		1,1-dichloroethene			17	ug/L	20	86		70	130	2	20
		methylene chloride			20	ug/L	20	98		70	130	1	20
		carbon disulfide			19	ug/L	20	95		70	130	1	20
		methyl t-butyl ether (MTBE)			20	ug/L	20	98		70	130	3	20
		trans-1,2-dichloroethene			18	ug/L	20	89		70	130	5	20
		isopropyl ether (DIPE)			19	ug/L	20	96		70	130	1	20
		ethyl t-butyl ether (ETBE)			19	ug/L	20	95		70	130	2	20
		1,1-dichloroethane			18	ug/L	20	91		70	130	0	20
		t-butanol (TBA)			97	ug/L	100	97		70	130	12	20
		2-butanone (MEK)			19	ug/L	20	95		70	130	8	20
		2,2-dichloropropane			13	ug/L	20	63	*	70	130	2	20
		cis-1,2-dichloroethene			20	ug/L	20	98		70	130	1	20
		chloroform			19	ug/L	20	95		70	130	1	20
		bromochloromethane			18	ug/L	20	92		70	130	6	20
		tetrahydrofuran (THF)			19	ug/L	20	94		70	130	6	20
		1,1,1-trichloroethane			19	ug/L	20	93		70	130	2	20
		1,1-dichloropropene			18	ug/L	20	90		70	130	2	20
		t-amyl-methyl ether (TAME)			19	ug/L	20	97		70	130	4	20
		carbon tetrachloride			18	ug/L	20	90		70	130	0	20
		1,2-dichloroethane			20	ug/L	20	99		70	130	3	20
		benzene			19	ug/L	20	96		70	130	2	20
		trichloroethene			19	ug/L	20	94		70	130	1	20
		1,2-dichloropropane			19	ug/L	20	93		70	130	0	20
		bromodichloromethane			19	ug/L	20	95		70	130	4	20
		1,4-dioxane		<	50	ug/L	40	103		70	130	12	20
		dibromomethane			19	ug/L	20	97		70	130	1	20
		4-methyl-2-pentanone (MIBK)			18	ug/L	20	91		70	130	7	20
		cis-1,3-dichloropropene			18	ug/L	20	92		70	130	2	20
		toluene			20	ug/L	20	98		70	130	1	20
		trans-1,3-dichloropropene			18	ug/L	20	90		70	130	5	20
		2-hexanone			19	ug/L	20	95		70	130	12	20
		1,1,2-trichloroethane			21	ug/L	20	104		70	130	5	20
		1,3-dichloropropane			20	ug/L	20	98		70	130	4	20
		tetrachloroethene			18	ug/L	20	90		70	130	2	20
		dibromochloromethane			18	ug/L	20	89		70	130	5	20
		1,2-dibromoethane (EDB)			20	ug/L	20	99		70	130	6	20
		chlorobenzene			19	ug/L	20	97		70	130	0	20
		1,1,1,2-tetrachloroethane			19	ug/L	20	94		70	130	4	20
		ethylbenzene			18	ug/L	20	91		70	130	0	20
		m&p-xylenes			37	ug/L	40	93		70	130	0	20
		o-xylene			19	ug/L	20	96		70	130	1	20
		styrene			20	ug/L	20	99		70	130	1	20
		bromoform			17	ug/L	20	86		70	130	8	20

Method	QC ID	Parameter	Associated Sample	Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW5030C8260C	LCSD1501295	isopropylbenzene		19	ug/L	20	96	70	130	2	20
		1,1,2,2-tetrachloroethane		20	ug/L	20	101	70	130	5	20
		1,2,3-trichloropropane		20	ug/L	20	99	70	130	2	20
		n-propylbenzene		19	ug/L	20	95	70	130	3	20
		bromobenzene		19	ug/L	20	97	70	130	2	20
		1,3,5-trimethylbenzene		19	ug/L	20	93	70	130	2	20
		2-chlorotoluene		19	ug/L	20	97	70	130	2	20
		4-chlorotoluene		19	ug/L	20	95	70	130	0	20
		tert-butylbenzene		19	ug/L	20	96	70	130	3	20
		1,2,4-trimethylbenzene		19	ug/L	20	95	70	130	1	20
		sec-butylbenzene		19	ug/L	20	95	70	130	3	20
		1,3-dichlorobenzene		19	ug/L	20	97	70	130	0	20
		4-isopropyltoluene		19	ug/L	20	95	70	130	2	20
		1,4-dichlorobenzene		20	ug/L	20	98	70	130	1	20
		1,2-dichlorobenzene		20	ug/L	20	98	70	130	1	20
		n-butylbenzene		19	ug/L	20	94	70	130	4	20
		1,2-dibromo-3-chloropropane (DBCP)		19	ug/L	20	93	70	130	18	20
		1,2,4-trichlorobenzene		20	ug/L	20	98	70	130	4	20
		1,3,5-trichlorobenzene		19	ug/L	20	94	70	130	1	20
		hexachlorobutadiene		16	ug/L	20	82	70	130	3	20
		naphthalene		20	ug/L	20	102	70	130	9	20
		1,2,3-trichlorobenzene		20	ug/L	20	99	70	130	7	20
		dibromofluoromethane SUR		102	%			78	114		
		toluene-D8 SUR		100	%			88	110		
		4-bromofluorobenzene SUR		98	%			86	115		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits	RPD	RPD Limit
SW3510C8270D	BLK7900	N-nitrosodimethylamine		<	2	ug/L					
		aniline		<	2	ug/L					
		phenol		<	2	ug/L					
		2-chlorophenol		<	5	ug/L					
		bis(2-chloroethyl)ether		<	2	ug/L					
		1,3-dichlorobenzene		<	2	ug/L					
		1,4-dichlorobenzene		<	2	ug/L					
		1,2-dichlorobenzene		<	2	ug/L					
		benzyl alcohol		<	2	ug/L					
		2-methylphenol		<	2	ug/L					
		bis(2-chloroisopropyl) ether		<	2	ug/L					
		hexachloroethane		<	2	ug/L					
		N-nitroso-di-N-propylamine		<	2	ug/L					
		4-methylphenol		<	2	ug/L					
		nitrobenzene		<	2	ug/L					
		isophorone		<	5	ug/L					
		2-nitrophenol		<	2	ug/L					
		2,4-dimethylphenol		<	2	ug/L					
		bis(2-chloroethoxy)methane		<	5	ug/L					
		2,4-dichlorophenol		<	5	ug/L					
		1,2,4-trichlorobenzene		<	5	ug/L					
		naphthalene		<	0.5	ug/L					
		benzoic acid		<	50	ug/L					
		4-chloroaniline		<	2	ug/L					
		hexachlorobutadiene		<	2	ug/L					
		4-chloro-3-methylphenol		<	2	ug/L					
		2-methylnaphthalene		<	0.5	ug/L					
		hexachlorocyclopentadiene		<	10	ug/L					
		2,4,6-trichlorophenol		<	2	ug/L					
		2,4,5-trichlorophenol		<	2	ug/L					
		2-chloronaphthalene		<	5	ug/L					
		2-nitroaniline		<	2	ug/L					
		acenaphthylene		<	0.5	ug/L					
		dimethylphthalate		<	5	ug/L					
		2,6-dinitrotoluene		<	2	ug/L					
		2,4-dinitrotoluene		<	2	ug/L					
		acenaphthene		<	0.5	ug/L					
		3-nitroaniline		<	2	ug/L					
		2,4-dinitrophenol		<	50	ug/L					
		dibenzofuran		<	0.5	ug/L					
		4-nitrophenol		<	10	ug/L					
		fluorene		<	0.5	ug/L					
		diethyl phthalate		<	5	ug/L					
		4-chlorophenyl phenyl ether		<	5	ug/L					
		4-nitroaniline		<	5	ug/L					
		4,6-dinitro-2-methylphenol		<	20	ug/L					
		azobenzene		<	2	ug/L					
		N-nitrosodiphenylamine		<	2	ug/L					
		4-bromophenyl phenyl ether		<	2	ug/L					
		hexachlorobenzene		<	2	ug/L					
		pentachlorophenol		<	10	ug/L					

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW3510C8270D	BLK7900	phenanthrene		<	0.5	ug/L						
		anthracene		<	0.5	ug/L						
		carbazole		<	2	ug/L						
		di-n-butylphthalate		<	5	ug/L						
		fluoranthene		<	0.5	ug/L						
		benzidine		<	30	ug/L						
		pyrene		<	0.5	ug/L						
		butyl benzyl phthalate		<	5	ug/L						
		benzo(a)anthracene		<	0.5	ug/L						
		chrysene		<	0.5	ug/L						
		3,3'-dichlorobenzidine		<	30	ug/L						
		bis(2-ethylhexyl)phthalate		<	5	ug/L						
		di-n-octyl phthalate		<	2	ug/L						
		benzo(b)fluoranthene		<	0.5	ug/L						
		benzo(k)fluoranthene		<	0.5	ug/L						
		benzo(a)pyrene		<	0.2	ug/L						
		indeno(1,2,3-cd)pyrene		<	0.5	ug/L						
		dibenzo(a,h)anthracene		<	0.5	ug/L						
		benzo(g,h,i)perylene		<	0.5	ug/L						
		2-fluorophenol SUR			31	%			21	100		
		phenol-D5 SUR			19	%			10	102		
		2,4,6-tribromophenol SUR			90	%			10	123		
		nitrobenzene-D5 SUR			71	%			35	114		
		2-fluorobiphenyl SUR			79	%			43	116		
		p-terphenyl-D14 SUR			85	%			33	141		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R		Limits		RPD	RPD Limit
SW3510C8270D	LCS7900	N-nitrosodimethylamine			12	ug/L	40	30	*	40	140		
		aniline			22	ug/L	40	56		40	140		
		phenol			8	ug/L	40	20	*	30	130		
		2-chlorophenol			25	ug/L	40	63		30	130		
		bis(2-chloroethyl)ether			28	ug/L	40	71		40	140		
		1,3-dichlorobenzene			21	ug/L	40	51		40	140		
		1,4-dichlorobenzene			22	ug/L	40	54		40	140		
		1,2-dichlorobenzene			22	ug/L	40	54		40	140		
		benzyl alcohol			20	ug/L	40	50		30	130		
		2-methylphenol			21	ug/L	40	52		30	130		
		bis(2-chloroisopropyl) ether			26	ug/L	40	65		40	140		
		hexachloroethane			18	ug/L	40	45		40	140		
		N-nitroso-di-N-propylamine			26	ug/L	40	65		40	140		
		4-methylphenol			18	ug/L	40	45		30	130		
		nitrobenzene			30	ug/L	40	74		40	140		
		isophorone			31	ug/L	40	77		40	140		
		2-nitrophenol			27	ug/L	40	69		30	130		
		2,4-dimethylphenol			20	ug/L	40	51		30	130		
		bis(2-chloroethoxy)methane			31	ug/L	40	78		40	140		
		2,4-dichlorophenol			28	ug/L	40	71		30	130		
		1,2,4-trichlorobenzene			25	ug/L	40	63		40	140		
		naphthalene			25	ug/L	40	63		40	140		
		benzoic acid		<	50	ug/L							
		4-chloroaniline			30	ug/L	40	75		40	140		
		hexachlorobutadiene			21	ug/L	40	54		40	140		
		4-chloro-3-methylphenol			28	ug/L	40	69		30	130		
		2-methylnaphthalene			25	ug/L	40	63		40	140		
		hexachlorocyclopentadiene			12	ug/L	40	31	*	40	140		
		2,4,6-trichlorophenol			34	ug/L	40	85		30	130		
		2,4,5-trichlorophenol			33	ug/L	40	83		30	130		
		2-chloronaphthalene			31	ug/L	40	77		40	140		
		2-nitroaniline			33	ug/L	40	83		40	140		
		acenaphthylene			31	ug/L	40	77		40	140		
		dimethylphthalate			21	ug/L	40	52		40	140		
		2,6-dinitrotoluene			32	ug/L	40	81		40	140		
		2,4-dinitrotoluene			32	ug/L	40	80		40	140		
		acenaphthene			31	ug/L	40	78		40	140		
		3-nitroaniline			35	ug/L	40	88		40	140		
		2,4-dinitrophenol		<	50	ug/L							
		dibenzofuran			35	ug/L	40	88		40	140		
		4-nitrophenol			13	ug/L	40	32		30	130		
		fluorene			34	ug/L	40	85		40	140		
		diethyl phthalate			30	ug/L	40	74		40	140		
		4-chlorophenyl phenyl ether			33	ug/L	40	83		40	140		
		4-nitroaniline			28	ug/L	40	69		40	140		
		4,6-dinitro-2-methylphenol			21	ug/L							
		azobenzene			34	ug/L	40	84		40	140		
		N-nitrosodiphenylamine			39	ug/L	40	97		40	140		
		4-bromophenyl phenyl ether			31	ug/L	40	77		40	140		
		hexachlorobenzene			29	ug/L	40	73		40	140		
		pentachlorophenol			57	ug/L	40	141	*	30	130		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW3510C8270D	LCS7900	phenanthrene			33	ug/L	40	83	40	140		
		anthracene			30	ug/L	40	74	40	140		
		carbazole			33	ug/L	40	82	40	140		
		di-n-butylphthalate			29	ug/L	40	73	40	140		
		fluoranthene			28	ug/L	40	71	40	140		
		benzidine		<	30	ug/L						
		pyrene			38	ug/L	40	96	40	140		
		butyl benzyl phthalate			33	ug/L	40	82	40	140		
		benzo(a)anthracene			36	ug/L	40	90	40	140		
		chrysene			35	ug/L	40	88	40	140		
		3,3'-dichlorobenzidine		<	30	ug/L						
		bis(2-ethylhexyl)phthalate			34	ug/L	40	84	40	140		
		di-n-octyl phthalate			34	ug/L	40	86	40	140		
		benzo(b)fluoranthene			35	ug/L	40	86	40	140		
		benzo(k)fluoranthene			33	ug/L	40	82	40	140		
		benzo(a)pyrene			35	ug/L	40	87	40	140		
		indeno(1,2,3-cd)pyrene			37	ug/L	40	93	40	140		
		dibenzo(a,h)anthracene			38	ug/L	40	94	40	140		
		benzo(g,h,i)perylene			36	ug/L	40	90	40	140		
		2-fluorophenol SUR			29	%			21	100		
		phenol-D5 SUR			19	%			10	102		
		2,4,6-tribromophenol SUR			84	%			10	123		
		nitrobenzene-D5 SUR			74	%			35	114		
		2-fluorobiphenyl SUR			87	%			43	116		
		p-terphenyl-D14 SUR			83	%			33	141		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R		Limits		RPD	RPD Limit	
SW3510C8270D	LCSD7900	N-nitrosodimethylamine			12	ug/L	40	31	*	40	140	2	20	
		aniline			21	ug/L	40	53		40	140	5	20	
		phenol			8	ug/L	40	20	*	30	130	2	20	
		2-chlorophenol			25	ug/L	40	61		30	130	2	20	
		bis(2-chloroethyl)ether			30	ug/L	40	74		40	140	5	20	
		1,3-dichlorobenzene			25	ug/L	40	62		40	140	18	20	
		1,4-dichlorobenzene			26	ug/L	40	65		40	140	18	20	
		1,2-dichlorobenzene			25	ug/L	40	63		40	140	15	20	
		benzyl alcohol			20	ug/L	40	50		30	130	0	20	
		2-methylphenol			20	ug/L	40	50		30	130	3	20	
		bis(2-chloroisopropyl) ether			26	ug/L	40	66		40	140	1	20	
		hexachloroethane			24	ug/L	40	61		40	140	31	* 20	
		N-nitroso-di-N-propylamine			27	ug/L	40	66		40	140	1	20	
		4-methylphenol			18	ug/L	40	44		30	130	4	20	
		nitrobenzene			31	ug/L	40	77		40	140	3	20	
		isophorone			31	ug/L	40	78		40	140	2	20	
		2-nitrophenol			28	ug/L	40	69		30	130	0	20	
		2,4-dimethylphenol			20	ug/L	40	50		30	130	2	20	
		bis(2-chloroethoxy)methane			32	ug/L	40	79		40	140	1	20	
		2,4-dichlorophenol			29	ug/L	40	72		30	130	1	20	
		1,2,4-trichlorobenzene			28	ug/L	40	70		40	140	12	20	
		naphthalene			27	ug/L	40	67		40	140	6	20	
		benzoic acid		<	50	ug/L							20	
		4-chloroaniline			30	ug/L	40	75		40	140	0	20	
		hexachlorobutadiene			27	ug/L	40	67		40	140	22	* 20	
		4-chloro-3-methylphenol			28	ug/L	40	70		30	130	2	20	
		2-methylnaphthalene			26	ug/L	40	66		40	140	4	20	
		hexachlorocyclopentadiene			12	ug/L	40	30	*	40	140	1	20	
		2,4,6-trichlorophenol			35	ug/L	40	87		30	130	2	20	
		2,4,5-trichlorophenol			34	ug/L	40	86		30	130	3	20	
		2-chloronaphthalene			32	ug/L	40	80		40	140	4	20	
		2-nitroaniline			33	ug/L	40	83		40	140	0	20	
		acenaphthylene			32	ug/L	40	79		40	140	3	20	
		dimethylphthalate			28	ug/L	40	70		40	140	28	* 20	
		2,6-dinitrotoluene			33	ug/L	40	82		40	140	1	20	
		2,4-dinitrotoluene			31	ug/L	40	78		40	140	2	20	
		acenaphthene			32	ug/L	40	80		40	140	2	20	
		3-nitroaniline			35	ug/L	40	87		40	140	0	20	
		2,4-dinitrophenol		<	50	ug/L							20	
		dibenzofuran			36	ug/L	40	89		40	140	1	20	
		4-nitrophenol			13	ug/L	40	32		30	130	0	20	
		fluorene			35	ug/L	40	86		40	140	2	20	
		diethyl phthalate			32	ug/L	40	80		40	140	7	20	
		4-chlorophenyl phenyl ether			33	ug/L	40	83		40	140	1	20	
		4-nitroaniline			25	ug/L	40	63		40	140	9	20	
		4,6-dinitro-2-methylphenol			26	ug/L							20	
		azobenzene			35	ug/L	40	88		40	140	4	20	
		N-nitrosodiphenylamine			41	ug/L	40	102		40	140	5	20	
		4-bromophenyl phenyl ether			32	ug/L	40	80		40	140	3	20	
		hexachlorobenzene			30	ug/L	40	75		40	140	2	20	
		pentachlorophenol			58	ug/L	40	144	*	30	130	2	20	

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW3510C8270D	LCSD7900	phenanthrene			34	ug/L	40	84	40	140	1	20
		anthracene			30	ug/L	40	75	40	140	1	20
		carbazole			33	ug/L	40	83	40	140	1	20
		di-n-butylphthalate			30	ug/L	40	75	40	140	2	20
		fluoranthene			29	ug/L	40	74	40	140	4	20
		benzidine		<	30	ug/L						20
		pyrene			40	ug/L	40	99	40	140	3	20
		butyl benzyl phthalate			35	ug/L	40	88	40	140	7	20
		benzo(a)anthracene			37	ug/L	40	93	40	140	3	20
		chrysene			36	ug/L	40	90	40	140	2	20
		3,3'-dichlorobenzidine		<	30	ug/L						20
		bis(2-ethylhexyl)phthalate			34	ug/L	40	86	40	140	2	20
		di-n-octyl phthalate			35	ug/L	40	87	40	140	1	20
		benzo(b)fluoranthene			36	ug/L	40	91	40	140	5	20
		benzo(k)fluoranthene			32	ug/L	40	79	40	140	4	20
		benzo(a)pyrene			35	ug/L	40	88	40	140	1	20
		indeno(1,2,3-cd)pyrene			37	ug/L	40	93	40	140	0	20
		dibenzo(a,h)anthracene			38	ug/L	40	95	40	140	1	20
		benzo(g,h,i)perylene			37	ug/L	40	92	40	140	2	20
		2-fluorophenol SUR			29	%			21	100		
		phenol-D5 SUR			18	%			10	102		
		2,4,6-tribromophenol SUR			93	%			10	123		
		nitrobenzene-D5 SUR			74	%			35	114		
		2-fluorobiphenyl SUR			87	%			43	116		
		p-terphenyl-D14 SUR			87	%			33	141		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW3005A6010C	BLK7895	Silver		<	0.005	mg/L						
		Arsenic		<	0.008	mg/L						
		Barium		<	0.05	mg/L						
		Cadmium		<	0.004	mg/L						
		Chromium		<	0.05	mg/L						
		Lead		<	0.01	mg/L						
		Selenium		<	0.05	mg/L						
SW3005A6010C	DUP7895	Silver	33099-002	<	0.005	mg/L					11	20
		Barium	33099-002		0.06	mg/L					0	20
SW3005A6010C	LCS7895	Silver			0.23	mg/L	0.25	93	80	120		
		Arsenic			0.51	mg/L	0.5	102	80	120		
		Barium			0.51	mg/L	0.5	103	80	120		
		Cadmium			0.51	mg/L	0.5	102	80	120		
		Chromium			0.53	mg/L	0.5	106	80	120		
		Lead			0.54	mg/L	0.5	108	80	120		
		Selenium			0.51	mg/L	0.5	103	80	120		
SW3005A6010C	LCSD7895	Silver			0.24	mg/L	0.25	95	80	120	3	20
		Arsenic			0.52	mg/L	0.5	105	80	120	3	20
		Barium			0.52	mg/L	0.5	104	80	120	2	20
		Cadmium			0.52	mg/L	0.5	104	80	120	2	20
		Chromium			0.54	mg/L	0.5	108	80	120	1	20
		Lead			0.54	mg/L	0.5	109	80	120	1	20
		Selenium			0.52	mg/L	0.5	104	80	120	1	20
SW3005A6010C	MS7895	Silver	33099-002		0.24	mg/L	0.25	96	70	130		
		Barium	33099-002		0.58	mg/L	0.5	104	70	130		
SW3005A6010C	MS7895	Silver	33130-004		0.25	mg/L	0.25	102	75	125		
		Arsenic	33130-004		0.55	mg/L	0.5	110	75	125		
		Barium	33130-004		0.61	mg/L	0.5	105	75	125		
		Cadmium	33130-004		0.52	mg/L	0.5	105	75	125		
		Chromium	33130-004		0.54	mg/L	0.5	108	75	125		
		Lead	33130-004		0.52	mg/L	0.5	103	75	125		
		Selenium	33130-004		0.52	mg/L	0.5	105	75	125		
SW3005A6010C	MSD7895	Silver	33130-004		0.25	mg/L	0.25	100	75	125	1	20
		Arsenic	33130-004		0.54	mg/L	0.5	107	75	125	3	20
		Barium	33130-004		0.60	mg/L	0.5	103	75	125	2	20
		Cadmium	33130-004		0.51	mg/L	0.5	102	75	125	2	20
		Chromium	33130-004		0.53	mg/L	0.5	106	75	125	2	20
		Lead	33130-004		0.51	mg/L	0.5	102	75	125	2	20
		Selenium	33130-004		0.52	mg/L	0.5	104	75	125	1	20

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW3005A6010C	BLK7907	Silver		<	0.005	mg/L						
		Arsenic		<	0.008	mg/L						
		Barium		<	0.05	mg/L						
		Cadmium		<	0.004	mg/L						
		Chromium		<	0.05	mg/L						
		Lead		<	0.01	mg/L						
		Selenium		<	0.05	mg/L						
SW3005A6010C	LCS7907	Silver			0.24	mg/L	0.25	96	80	120		
		Arsenic			0.51	mg/L	0.5	101	80	120		
		Barium			0.50	mg/L	0.5	100	80	120		
		Cadmium			0.48	mg/L	0.5	96	80	120		
		Chromium			0.51	mg/L	0.5	101	80	120		
		Lead			0.49	mg/L	0.5	98	80	120		
		Selenium			0.49	mg/L	0.5	98	80	120		
SW3005A6010C	LCSD7907	Silver			0.24	mg/L	0.25	95	80	120	2	20
		Arsenic			0.50	mg/L	0.5	100	80	120	1	20
		Barium			0.49	mg/L	0.5	99	80	120	1	20
		Cadmium			0.47	mg/L	0.5	94	80	120	2	20
		Chromium			0.50	mg/L	0.5	99	80	120	2	20
		Lead			0.48	mg/L	0.5	96	80	120	2	20
		Selenium			0.48	mg/L	0.5	96	80	120	2	20
SW7470A	BLK7915	Mercury		<	0.0002	mg/L						
SW7470A	LCS7915	Mercury			0.0020	mg/L	0.002	100	80	120		
SW7470A	MS7915	Mercury	33119-001		0.0020	mg/L	0.002	99	75	125		
SW7470A	MS7915	Mercury	33130-004		0.0020	mg/L	0.002	101	75	125		
SW7470A	MSD7915	Mercury	33130-004		0.0020	mg/L	0.002	101	75	125	0	20

PAGE 1 OF 1

Absolute Resource associates

124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

33130

Company Name: CREDERE ASSOC.

Company Address: 776 MAIN ST. WESTBROOK ME

Report To: JUDD NEWCOMB

Phone #: 207-828-1272 x16

Invoice to Email: JNEWCOMB@CREDERELLC.com

☐ Hard Copy Invoice Required

Project Name: MADEIRA

Project #: 14001247

Project Location: (NH) MA ME VT NY Other

Protocol: RCRA SDWA NPDES MCP (NHDES) OTHER

Reporting Limits: (QAPP) GW-1 S-1 EPA DW Other

Quote # CREDERE ☐ NH Reimbursement Pricing

PO # 14001247

ANALYSIS REQUEST

☐ VOC 8260 ☒ VOC 8260 NHDES ☐ VOC 8260 MADEP | ☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT | ☐ VPH MADEP ☐ MEGRO ☐ GRO 8015 ☐ 1,4-Dioxane | ☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List: | ☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint | ☐ 8270PAH ☒ 8270ABN ☐ 625 ☐ EDB | ☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB | ☐ O&G 1664 ☐ Mineral O&G SM5520F | ☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity | ☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity | ☒ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness | ☐ Total Metals-list: | ☐ Dissolved Metals-list: | ☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC | ☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN | ☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P | ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride | ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP | ☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide | Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde | (Grab (G)) or Composite (C)

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	SOLID	OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	Sampling: DATE	TIME	SAMPLER	VOC 8260 NHDES	8270ABN	RCRA Metals	Grab
3313001	CA-MW-1	4	X			X	X				5/27/15	1115	MK	X	X	X	G
-02	CA-MW-2	4	↓			X	X				↓	1245	MK	X	X	X	↓
-03	CA-MW-3	4	↓			X	X				↓	1120	MW	X	X	X	↓
-04	CA-MW-4	4	↓			X	X				↓	1235	MW	X	X	X	↓
-05	CA-MW-5	4	↓			X	✓				↓	950	MW	X	X	X	↓
-06	CA-MW-8	4	↓			X	✓				↓	1435	MW	X	X	X	↓
-07	CA-MW-9	4	↓			X	✓				↓	945	MK	X	X	X	↓
-08	CA-MW-DUP	4	↓			X	✓				↓	1130	MW	X	X	X	↓
-09	CA-MW-4 (MS/MSD)	1	↓				X				↓	1235	MW			X	↓
-10	TRIP BLANK	1	↓			X					↓			X			↓

TAT REQUESTED

Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☐
*Date Needed 6/9/15

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☒ PDF (e-mail address) JNEWCOMB@CREDERELLC.com

☐ HARD COPY REQUIRED ☐ FAX (FAX#)

RECEIVED ON ICE ☒ YES ☐ NO

TEMPERATURE 2 °C

CUSTODY RECORD

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Sampler: MARK WILLIS	5/29/15	1017	Received by: [signature]	5/29/15	1017
Relinquished by: [signature]	5/29/15	1140	Received by:		
Relinquished by:			Received by Laboratory: [signature]	5/29/15	11:40

QSD-01 Revision 01/09/15

63

Laboratory Report

Absolute Resource associates
124 Heritage Avenue Portsmouth NH 03801

Judd Newcomb
CREDERE Associates
776 Main Street
Westbrook, ME 04092

PO Number: 14001247
Job ID: 32938
Date Received: 5/8/15

Project: Madeira 14001247

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 5/26/2015
Total number of pages: 13

Absolute Resource Associates Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Madeira 14001247
Lab ID: 32938

Sample Association Table

Field ID	Matrix	Date-Time Sampled	Lab#	Analysis
CA-PCB-1	Bulk	5/7/2015 11:45	32938-001	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-2	Bulk	5/7/2015 11:45	32938-002	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-3	Bulk	5/7/2015 12:00	32938-003	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-4	Bulk	5/7/2015 12:10	32938-004	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-5	Bulk	5/7/2015 12:15	32938-005	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-6	Bulk	5/7/2015 12:30	32938-006	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-7	Bulk	5/7/2015 13:40	32938-007	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-8	Bulk	5/7/2015 13:50	32938-008	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-9	Bulk	5/7/2015 14:00	32938-009	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-10	Bulk	5/7/2015 14:10	32938-010	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-DUP	Bulk	5/7/2015 0:00	32938-011	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G

Project ID: Madeira 14001247
Job ID: 32938

Sample#: 32938-001
Sample ID: CA-PCB-1
Matrix: Bulk Material
Sampled: 5/7/15 11:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/19/15	8:59	SW3540C8082A
PCB-1221	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/19/15	8:59	SW3540C8082A
PCB-1232	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/19/15	8:59	SW3540C8082A
PCB-1242	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/19/15	8:59	SW3540C8082A
PCB-1248	**1.1**	0.8	ug/g	5	AM	5/14/15	7839	5/19/15	8:59	SW3540C8082A
PCB-1254	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/19/15	8:59	SW3540C8082A
PCB-1260	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/19/15	8:59	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**113**	30-150	%	5	AM	5/14/15	7839	5/19/15	8:59	SW3540C8082A
decachlorobiphenyl SUR	**92**	30-150	%	5	AM	5/14/15	7839	5/19/15	8:59	SW3540C8082A

Sample#: 32938-002
Sample ID: CA-PCB-2
Matrix: Bulk Material
Sampled: 5/7/15 11:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 1.7	1.7	ug/g	10	AM	5/14/15	7839	5/19/15	9:29	SW3540C8082A
PCB-1221	< 1.7	1.7	ug/g	10	AM	5/14/15	7839	5/19/15	9:29	SW3540C8082A
PCB-1232	< 1.7	1.7	ug/g	10	AM	5/14/15	7839	5/19/15	9:29	SW3540C8082A
PCB-1242	< 1.7	1.7	ug/g	10	AM	5/14/15	7839	5/19/15	9:29	SW3540C8082A
PCB-1248	**2.9**	1.7	ug/g	10	AM	5/14/15	7839	5/19/15	9:29	SW3540C8082A
PCB-1254	**2.0**	1.7	ug/g	10	AM	5/14/15	7839	5/19/15	9:29	SW3540C8082A
PCB-1260	< 1.7	1.7	ug/g	10	AM	5/14/15	7839	5/19/15	9:29	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**118**	30-150	%	10	AM	5/14/15	7839	5/19/15	9:29	SW3540C8082A
decachlorobiphenyl SUR	**107**	30-150	%	10	AM	5/14/15	7839	5/19/15	9:29	SW3540C8082A

Project ID: Madeira 14001247
Job ID: 32938

Sample#: 32938-003
Sample ID: CA-PCB-3
Matrix: Bulk Material
Sampled: 5/7/15 12:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.2	0.2	ug/g	1	AM	5/14/15	7839	5/20/15	0:18	SW3540C8082A
PCB-1221	< 0.2	0.2	ug/g	1	AM	5/14/15	7839	5/20/15	0:18	SW3540C8082A
PCB-1232	< 0.2	0.2	ug/g	1	AM	5/14/15	7839	5/20/15	0:18	SW3540C8082A
PCB-1242	< 0.2	0.2	ug/g	1	AM	5/14/15	7839	5/20/15	0:18	SW3540C8082A
PCB-1248	< 0.2	0.2	ug/g	1	AM	5/14/15	7839	5/20/15	0:18	SW3540C8082A
PCB-1254	< 0.2	0.2	ug/g	1	AM	5/14/15	7839	5/20/15	0:18	SW3540C8082A
PCB-1260	< 0.2	0.2	ug/g	1	AM	5/14/15	7839	5/20/15	0:18	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**87**	30-150	%	1	AM	5/14/15	7839	5/20/15	0:18	SW3540C8082A
decachlorobiphenyl SUR	**64**	30-150	%	1	AM	5/14/15	7839	5/20/15	0:18	SW3540C8082A

Sample#: 32938-004
Sample ID: CA-PCB-4
Matrix: Bulk Material
Sampled: 5/7/15 12:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	**1.8**	0.6	ug/g	5	AM	5/14/15	7839	5/19/15	9:59	SW3540C8082A
PCB-1221	< 0.6	0.6	ug/g	5	AM	5/14/15	7839	5/19/15	9:59	SW3540C8082A
PCB-1232	< 0.6	0.6	ug/g	5	AM	5/14/15	7839	5/19/15	9:59	SW3540C8082A
PCB-1242	< 0.6	0.6	ug/g	5	AM	5/14/15	7839	5/19/15	9:59	SW3540C8082A
PCB-1248	**2.0**	0.6	ug/g	5	AM	5/14/15	7839	5/19/15	9:59	SW3540C8082A
PCB-1254	< 0.6	0.6	ug/g	5	AM	5/14/15	7839	5/19/15	9:59	SW3540C8082A
PCB-1260	< 0.6	0.6	ug/g	5	AM	5/14/15	7839	5/19/15	9:59	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**108**	30-150	%	5	AM	5/14/15	7839	5/19/15	9:59	SW3540C8082A
decachlorobiphenyl SUR	**98**	30-150	%	5	AM	5/14/15	7839	5/19/15	9:59	SW3540C8082A

Project ID: Madeira 14001247
Job ID: 32938

Sample#: 32938-005
Sample ID: CA-PCB-5
Matrix: Bulk Material
Sampled: 5/7/15 12:15

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.1	0.1	ug/g	1	AM	5/14/15	7839	5/20/15	0:48	SW3540C8082A
PCB-1221	< 0.1	0.1	ug/g	1	AM	5/14/15	7839	5/20/15	0:48	SW3540C8082A
PCB-1232	< 0.1	0.1	ug/g	1	AM	5/14/15	7839	5/20/15	0:48	SW3540C8082A
PCB-1242	< 0.1	0.1	ug/g	1	AM	5/14/15	7839	5/20/15	0:48	SW3540C8082A
PCB-1248	< 0.1	0.1	ug/g	1	AM	5/14/15	7839	5/20/15	0:48	SW3540C8082A
PCB-1254	< 0.1	0.1	ug/g	1	AM	5/14/15	7839	5/20/15	0:48	SW3540C8082A
PCB-1260	< 0.1	0.1	ug/g	1	AM	5/14/15	7839	5/20/15	0:48	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**113**	30-150	%	1	AM	5/14/15	7839	5/20/15	0:48	SW3540C8082A
decachlorobiphenyl SUR	**70**	30-150	%	1	AM	5/14/15	7839	5/20/15	0:48	SW3540C8082A

Sample#: 32938-006
Sample ID: CA-PCB-6
Matrix: Bulk Material
Sampled: 5/7/15 12:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 1.5	1.5	ug/g	10	AM	5/14/15	7839	5/19/15	0:02	SW3540C8082A
PCB-1221	< 1.5	1.5	ug/g	10	AM	5/14/15	7839	5/19/15	0:02	SW3540C8082A
PCB-1232	< 1.5	1.5	ug/g	10	AM	5/14/15	7839	5/19/15	0:02	SW3540C8082A
PCB-1242	< 1.5	1.5	ug/g	10	AM	5/14/15	7839	5/19/15	0:02	SW3540C8082A
PCB-1248	< 1.5	1.5	ug/g	10	AM	5/14/15	7839	5/19/15	0:02	SW3540C8082A
PCB-1254	**5.4**	1.5	ug/g	10	AM	5/14/15	7839	5/19/15	0:02	SW3540C8082A
PCB-1260	< 1.5	1.5	ug/g	10	AM	5/14/15	7839	5/19/15	0:02	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**121**	30-150	%	10	AM	5/14/15	7839	5/19/15	0:02	SW3540C8082A
decachlorobiphenyl SUR	**79**	30-150	%	10	AM	5/14/15	7839	5/19/15	0:02	SW3540C8082A

Project ID: Madeira 14001247
Job ID: 32938

Sample#: 32938-007
Sample ID: CA-PCB-7
Matrix: Bulk Material
Sampled: 5/7/15 13:40

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/18/15	20:29	SW3540C8082A
PCB-1221	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/18/15	20:29	SW3540C8082A
PCB-1232	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/18/15	20:29	SW3540C8082A
PCB-1242	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/18/15	20:29	SW3540C8082A
PCB-1248	**0.9**	0.8	ug/g	5	AM	5/14/15	7839	5/18/15	20:29	SW3540C8082A
PCB-1254	**0.9**	0.8	ug/g	5	AM	5/14/15	7839	5/18/15	20:29	SW3540C8082A
PCB-1260	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/18/15	20:29	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**77**	30-150	%	5	AM	5/14/15	7839	5/18/15	20:29	SW3540C8082A
decachlorobiphenyl SUR	**81**	30-150	%	5	AM	5/14/15	7839	5/18/15	20:29	SW3540C8082A

Sample#: 32938-008
Sample ID: CA-PCB-8
Matrix: Bulk Material
Sampled: 5/7/15 13:50

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/18/15	21:00	SW3540C8082A
PCB-1221	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/18/15	21:00	SW3540C8082A
PCB-1232	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/18/15	21:00	SW3540C8082A
PCB-1242	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/18/15	21:00	SW3540C8082A
PCB-1248	**1.8**	0.8	ug/g	5	AM	5/14/15	7839	5/18/15	21:00	SW3540C8082A
PCB-1254	**1.4**	0.8	ug/g	5	AM	5/14/15	7839	5/18/15	21:00	SW3540C8082A
PCB-1260	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/18/15	21:00	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**87**	30-150	%	5	AM	5/14/15	7839	5/18/15	21:00	SW3540C8082A
decachlorobiphenyl SUR	**86**	30-150	%	5	AM	5/14/15	7839	5/18/15	21:00	SW3540C8082A

Project ID: Madeira 14001247
Job ID: 32938

Sample#: 32938-009
Sample ID: CA-PCB-9
Matrix: Bulk Material
Sampled: 5/7/15 14:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/19/15	10:55	SW3540C8082A
PCB-1221	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/19/15	10:55	SW3540C8082A
PCB-1232	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/19/15	10:55	SW3540C8082A
PCB-1242	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/19/15	10:55	SW3540C8082A
PCB-1248	**1.6**	0.8	ug/g	5	AM	5/14/15	7839	5/19/15	10:55	SW3540C8082A
PCB-1254	**0.8**	0.8	ug/g	5	AM	5/14/15	7839	5/19/15	10:55	SW3540C8082A
PCB-1260	< 0.8	0.8	ug/g	5	AM	5/14/15	7839	5/19/15	10:55	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**104**	30-150	%	5	AM	5/14/15	7839	5/19/15	10:55	SW3540C8082A
decachlorobiphenyl SUR	**43**	30-150	%	5	AM	5/14/15	7839	5/19/15	10:55	SW3540C8082A

Sample#: 32938-010
Sample ID: CA-PCB-10
Matrix: Bulk Material
Sampled: 5/7/15 14:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.7	0.7	ug/g	5	AM	5/18/15	7852	5/20/15	22:53	SW3540C8082A
PCB-1221	< 0.7	0.7	ug/g	5	AM	5/18/15	7852	5/20/15	22:53	SW3540C8082A
PCB-1232	< 0.7	0.7	ug/g	5	AM	5/18/15	7852	5/20/15	22:53	SW3540C8082A
PCB-1242	< 0.7	0.7	ug/g	5	AM	5/18/15	7852	5/20/15	22:53	SW3540C8082A
PCB-1248	< 0.7	0.7	ug/g	5	AM	5/18/15	7852	5/20/15	22:53	SW3540C8082A
PCB-1254	**1.2**	0.7	ug/g	5	AM	5/18/15	7852	5/20/15	22:53	SW3540C8082A
PCB-1260	< 0.7	0.7	ug/g	5	AM	5/18/15	7852	5/20/15	22:53	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**84**	30-150	%	5	AM	5/18/15	7852	5/20/15	22:53	SW3540C8082A
decachlorobiphenyl SUR	**39**	30-150	%	5	AM	5/18/15	7852	5/20/15	22:53	SW3540C8082A

Project ID: Madeira 14001247
Job ID: 32938
Sample#: 32938-011
Sample ID: CA-PCB-DUP
Matrix: Bulk Material
Sampled: 5/7/15 0:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
PCB-1016	< 0.7	0.7	ug/g	5	AM	5/18/15	7852	5/19/15	18:12	SW3540C8082A
PCB-1221	< 0.7	0.7	ug/g	5	AM	5/18/15	7852	5/19/15	18:12	SW3540C8082A
PCB-1232	< 0.7	0.7	ug/g	5	AM	5/18/15	7852	5/19/15	18:12	SW3540C8082A
PCB-1242	< 0.7	0.7	ug/g	5	AM	5/18/15	7852	5/19/15	18:12	SW3540C8082A
PCB-1248	< 0.7	0.7	ug/g	5	AM	5/18/15	7852	5/19/15	18:12	SW3540C8082A
PCB-1254	**3.3**	0.7	ug/g	5	AM	5/18/15	7852	5/19/15	18:12	SW3540C8082A
PCB-1260	< 0.7	0.7	ug/g	5	AM	5/18/15	7852	5/19/15	18:12	SW3540C8082A
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**81**	30-150	%	5	AM	5/18/15	7852	5/19/15	18:12	SW3540C8082A
decachlorobiphenyl SUR	**54**	30-150	%	5	AM	5/18/15	7852	5/19/15	18:12	SW3540C8082A

Quality Control Report

124 Heritage Avenue Unit 16
Portsmouth, NH 03801
www.absoluteresourceassociates.com

Project ID: Madeira 14001247

Lab ID: 32938

Sample Association Table

Field ID	Matrix	Date-Time Sampled	Lab#	Analysis
CA-PCB-1	Bulk	5/7/2015 11:45	32938-001	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-2	Bulk	5/7/2015 11:45	32938-002	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-3	Bulk	5/7/2015 12:00	32938-003	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-4	Bulk	5/7/2015 12:10	32938-004	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-5	Bulk	5/7/2015 12:15	32938-005	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-6	Bulk	5/7/2015 12:30	32938-006	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-7	Bulk	5/7/2015 13:40	32938-007	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-8	Bulk	5/7/2015 13:50	32938-008	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-9	Bulk	5/7/2015 14:00	32938-009	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-10	Bulk	5/7/2015 14:10	32938-010	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G
CA-PCB-DUP	Bulk	5/7/2015 0:00	32938-011	PCBs in soil by 8082 Percent Dry Matter for Sample Calc by SM2540B,G

- QC Report -

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW3540C8082A	BLK7839	PCB-1016		<	0.1	ug/g						
		PCB-1221		<	0.1	ug/g						
		PCB-1232		<	0.1	ug/g						
		PCB-1242		<	0.1	ug/g						
		PCB-1248		<	0.1	ug/g						
		PCB-1254		<	0.1	ug/g						
		PCB-1260		<	0.1	ug/g						
		tetrachloro-m-xylene SUR			93	%			30	150		
		decachlorobiphenyl SUR			86	%			30	150		
SW3540C8082A	LCS7839	PCB-1016			2.2	ug/g	2	108	40	140		
		PCB-1221		<	0.1	ug/g						
		PCB-1232		<	0.1	ug/g						
		PCB-1242		<	0.1	ug/g						
		PCB-1248		<	0.1	ug/g						
		PCB-1254		<	0.1	ug/g						
		PCB-1260			2.1	ug/g	2	104	40	140		
		tetrachloro-m-xylene SUR			92	%			30	150		
		decachlorobiphenyl SUR			94	%			30	150		
SW3540C8082A	LCSD7839	PCB-1016			2.3	ug/g	2	117	40	140	8	30
		PCB-1221		<	0.1	ug/g						
		PCB-1232		<	0.1	ug/g						
		PCB-1242		<	0.1	ug/g						
		PCB-1248		<	0.1	ug/g						
		PCB-1254		<	0.1	ug/g						
		PCB-1260			2.2	ug/g	2	109	40	140	5	30
		tetrachloro-m-xylene SUR			96	%			30	150		
		decachlorobiphenyl SUR			96	%			30	150		

Method	QC ID	Parameter	Associated Sample		Result	Units	Amt Added	%R	Limits		RPD	RPD Limit
SW3540C8082A	BLK7852	PCB-1016		<	0.1	ug/g						
		PCB-1221		<	0.1	ug/g						
		PCB-1232		<	0.1	ug/g						
		PCB-1242		<	0.1	ug/g						
		PCB-1248		<	0.1	ug/g						
		PCB-1254		<	0.1	ug/g						
		PCB-1260		<	0.1	ug/g						
		tetrachloro-m-xylene SUR			89	%			30	150		
		decachlorobiphenyl SUR			70	%			30	150		
SW3540C8082A	LCS7852	PCB-1016			2.4	ug/g	2	118	40	140		
		PCB-1221		<	0.1	ug/g						
		PCB-1232		<	0.1	ug/g						
		PCB-1242		<	0.1	ug/g						
		PCB-1248		<	0.1	ug/g						
		PCB-1254		<	0.1	ug/g						
		PCB-1260			2.1	ug/g	2	104	40	140		
		tetrachloro-m-xylene SUR			96	%			30	150		
		decachlorobiphenyl SUR			84	%			30	150		
SW3540C8082A	LCSD7852	PCB-1016			2.2	ug/g	2	111	40	140	6	30
		PCB-1221		<	0.1	ug/g						
		PCB-1232		<	0.1	ug/g						
		PCB-1242		<	0.1	ug/g						
		PCB-1248		<	0.1	ug/g						
		PCB-1254		<	0.1	ug/g						
		PCB-1260			1.9	ug/g	2	95	40	140	9	30
		tetrachloro-m-xylene SUR			94	%			30	150		
		decachlorobiphenyl SUR			82	%			30	150		

Absolute Resource associates
124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

32938

Company Name: CREDERE
Company Address: 776 MAIN ST WESTBROOK ME 04092
Report To: JUDD NEWCOMB
Phone #: 207-232-5387
Invoice to Email: JNEWCOMB@CREDERELLC.COM
☐ Hard Copy Invoice Required

Project Name: MAOEIKA
Project #: 14001247
Project Location: (NH) MA ME VT NY Other
Protocol: RCRA SDWA NPDES MCP (NHDES) OTHER
Reporting Limits: QAPP (GW-1) S-1 EPA DW Other
Quote # CREDERE ☐ NH Reimbursement Pricing
PO # 14001247

ANALYSIS REQUEST

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP
☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT
☐ VPH MADEP ☐ MEGRO ☐ GRO 8015 ☐ 1,4-Dioxane
☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List:
☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB
☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB Sixlet
☐ O&G 1664 ☐ Mineral O&G SM5520F
☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity
☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity
☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness
☐ Total Metals-list:
☐ Dissolved Metals-list:
☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC
☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN
☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P
☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride
☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP
☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide
Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde
Grab (G) or Composite (C)

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	SOLID	OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	Sampling: DATE	TIME	SAMPLER	Grab (G) or Composite (C)
32938-01	CA-PCB-1	1		X							5/7/15	1145	JNL/MW	G
-02	CA-PCB-2	1										1145		
-03	CA-PCB-3	1										1200		
-04	CA-PCB-4	1										1210		
-05	CA-PCB-5	1										1215		
-06	CA-PCB-6	1										1230		
-07	CA-PCB-7	1										1340		
-08	CA-PCB-8	1										1350		
-09	CA-PCB-9	1										1400		
-10	CA-PCB-10	1										1410		
-11	CA-PCB DUP	1										—		

TAT REQUESTED
Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☐
*Date Needed 5/20/15

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☑ PDF (e-mail address) SAME
☐ HARD COPY REQUIRED ☐ FAX (FAX#)

RECEIVED ON ICE ☑ YES ☐ NO
TEMPERATURE 2 °C

CUSTODY RECORD
QSD-01 Revision 01/09/15

	Relinquished by Sampler:	Date	Time	Received by:	Date	Time
		5/8/15	1520			
	Relinquished by:	Date	Time	Received by:	Date	Time
	Relinquished by:	Date	Time	Received by Laboratory:	Date	Time
					5/8/15	1520

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EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com cinnasblab@EMSL.com

EMSL Order:	041513573
CustomerID:	CRED25
CustomerPO:	14001247
ProjectID:	

Attn: **Judd Newcomb**
Credere Associates, LLC
776 Main Street
Westbrook, ME 04092

Phone:	(204) 828-1272
Fax:	(207) 887-1051
Received:	05/09/15 10:30 AM
Analysis Date:	5/12/2015
Collected:	5/7/2015

Project: **Madeira / 14001247**

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
CA-SS-1 *041513573-0001*	- Surface Soil	Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
CA-SS-2 *041513573-0002*	- Surface Soil	Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
CA-SS-3 *041513573-0003*	- Surface Soil	Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
CA-SS-4 *041513573-0004*	- Surface Soil	Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**
CA-SS-5 *041513573-0005*	- Surface Soil	Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	**None Detected**

Analyst(s)

Will DiBella (5)

Benjamin Ellis, Laboratory Manager
or other approved signatory

This report relates only to the samples listed above and may not be reproduced except in full, without EMSL's written approval. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for sample collection activities or method limitations. Some samples may contain asbestos fibers below the resolution limit of PLM. EMSL recommends that samples reported as none detected or less than the limit of detection undergo additional analysis via TEM. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ

Initial report from 05/13/2015 07:45:56

EMSL Analytical, Inc.
161 John Roberts Road, South Portland, ME 04106
Phone/Fax: (207) 517-6921 / (207) 517-6922
http://www.EMSL.com portlandlab@emsl.com

EMSL Order:	621500803
CustomerID:	CRED25
CustomerPO:	14001247
ProjectID:	

Attn: **Judd Newcomb**
Credere Associates, LLC
776 Main Street
Westbrook, ME 04092

Phone:	(204) 828-1272
Fax:	(207) 887-1051
Received:	05/08/15 1:45 PM
Analysis Date:	5/11/2015
Collected:	5/7/2015

Project: **Madeira/14001247**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
CA-ACM-1A *621500803-0001*	RETAIL STORE - WHITE CEILING TILE	White Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Non-fibrous (other)	**None Detected**
CA-ACM-1B *621500803-0002*	RETAIL STORE - WHITE CEILING TILE	White Fibrous Homogeneous	55% Cellulose 30% Min. Wool	15% Non-fibrous (other)	**None Detected**
CA-ACM-1C *621500803-0003*	RETAIL STORE - WHITE CEILING TILE	Gray Fibrous Homogeneous	45% Cellulose 30% Min. Wool	25% Non-fibrous (other)	**None Detected**
CA-ACM-2A *621500803-0004*	RETAIL STORE - JOINT COMPOUND	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
CA-ACM-2B *621500803-0005*	RETAIL STORE - JOINT COMPOUND	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
CA-ACM-2C *621500803-0006*	RETAIL STORE - JOINT COMPOUND	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
CA-ACM-3A *621500803-0007*	RETAIL STORE - WHITE EXTERIOR WINDOW GLAZING (LEFT)	White Non-Fibrous Homogeneous		96% Non-fibrous (other)	**4% Chrysotile**
CA-ACM-3B *621500803-0008*	RETAIL STORE - WHITE EXTERIOR WINDOW GLAZING (LEFT)				**Stop Positive (Not Analyzed)**

Analyst(s)

Christina Walker (16)
Leslie McCluskeyEissing (3)

Christina Walker, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. South Portland, ME

Initial report from 05/11/2015 14:39:19

EMSL Analytical, Inc.
161 John Roberts Road, South Portland, ME 04106
Phone/Fax: (207) 517-6921 / (207) 517-6922
http://www.EMSL.com portlandlab@emsl.com

EMSL Order:	621500803
CustomerID:	CRED25
CustomerPO:	14001247
ProjectID:	

Attn: **Judd Newcomb**
Credere Associates, LLC
776 Main Street
Westbrook, ME 04092

Phone:	(204) 828-1272
Fax:	(207) 887-1051
Received:	05/08/15 1:45 PM
Analysis Date:	5/11/2015
Collected:	5/7/2015

Project: **Madeira/14001247**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
CA-ACM-3C *621500803-0009*	RETAIL STORE - WHITE EXTERIOR WINDOW GLAZING (LEFT)						**Stop Positive (Not Analyzed)**	
CA-ACM-4A *621500803-0010*	BOILER ROOM - BOILDER MUD INSULATION	Gray/White Fibrous Homogeneous			85%	Non-fibrous (other)	**15%**	**Chrysotile**
CA-ACM-4B *621500803-0011*	BOILER ROOM - BOILDER MUD INSULATION						**Stop Positive (Not Analyzed)**	
CA-ACM-4C *621500803-0012*	BOILER ROOM - BOILDER MUD INSULATION						**Stop Positive (Not Analyzed)**	
CA-ACM-5A *621500803-0013*	BOILER ROOM - PIPE WRAP	White Fibrous Homogeneous			74%	Non-fibrous (other)	**20%** **6%**	**Amosite** **Chrysotile**
CA-ACM-5B *621500803-0014*	BOILER ROOM - PIPE WRAP						**Stop Positive (Not Analyzed)**	
CA-ACM-5C *621500803-0015*	BOILER ROOM - PIPE WRAP						**Stop Positive (Not Analyzed)**	
CA-ACM-6A *621500803-0016*	BOILER ROOM - BOILER GASKET	Tan Fibrous Homogeneous	55%	Synthetic	25%	Non-fibrous (other)	**20%**	**Chrysotile**

Analyst(s)

Christina Walker (16)
Leslie McCluskeyEissing (3)

Christina Walker, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. South Portland, ME

Initial report from 05/11/2015 14:39:19

EMSL Analytical, Inc.
161 John Roberts Road, South Portland, ME 04106
Phone/Fax: (207) 517-6921 / (207) 517-6922
http://www.EMSL.com portlandlab@emsl.com

EMSL Order:	621500803
CustomerID:	CRED25
CustomerPO:	14001247
ProjectID:	

Attn: **Judd Newcomb**
Credere Associates, LLC
776 Main Street
Westbrook, ME 04092

Phone:	(204) 828-1272
Fax:	(207) 887-1051
Received:	05/08/15 1:45 PM
Analysis Date:	5/11/2015
Collected:	5/7/2015

Project: **Madeira/14001247**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
CA-ACM-6B *621500803-0017*	BOILER ROOM - BOILER GASKET				**Stop Positive (Not Analyzed)**
CA-ACM-6C *621500803-0018*	BOILER ROOM - BOILER GASKET				**Stop Positive (Not Analyzed)**
CA-ACM-7A *621500803-0019*	LOWER BUILDING, WAREHOUSE - BROWN 12X12 V.F.T	Brown Non-Fibrous Homogeneous		96% Non-fibrous (other)	**4% Chrysotile**
CA-ACM-7B *621500803-0020*	LOWER BUILDING, WAREHOUSE - BROWN 12X12 V.F.T				**Stop Positive (Not Analyzed)**
CA-ACM-7C *621500803-0021*	LOWER BUILDING, WAREHOUSE - BROWN 12X12 V.F.T				**Stop Positive (Not Analyzed)**
CA-ACM-8A *621500803-0022*	LOWER BUILDING, WAREHOUSE - OFF WHITE V.F.T.	White Non-Fibrous Homogeneous		97% Non-fibrous (other)	**3% Chrysotile**

Analyst(s)

Christina Walker (16)
Leslie McCluskeyEissing (3)

Christina Walker, Laboratory Manager
or other approved signatory

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Analysis Date:	5/11/2015
Collected:	5/7/2015

Project: **Madeira/14001247**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
CA-ACM-8B *621500803-0023*	LOWER BUILDING, WAREHOUSE - OFF WHITE V.F.T.				**Stop Positive (Not Analyzed)**
CA-ACM-8C *621500803-0024*	LOWER BUILDING, WAREHOUSE - OFF WHITE V.F.T.				**Stop Positive (Not Analyzed)**
CA-ACM-9A *621500803-0025*	LOWER BUILDING, WAREHOUSE - BLACK MASTIC	Black Non-Fibrous Homogeneous		94% Non-fibrous (other)	**6% Chrysotile**
CA-ACM-9B *621500803-0026*	LOWER BUILDING, WAREHOUSE - BLACK MASTIC				**Stop Positive (Not Analyzed)**
CA-ACM-9C *621500803-0027*	LOWER BUILDING, WAREHOUSE - BLACK MASTIC				**Stop Positive (Not Analyzed)**
CA-ACM-10A *621500803-0028*	LOWER BUILDING - EXT. WINDOW CAULK	Gray Non-Fibrous Homogeneous		97% Non-fibrous (other)	**3% Chrysotile**
CA-ACM-10B *621500803-0029*	LOWER BUILDING - EXT. WINDOW CAULK				**Stop Positive (Not Analyzed)**

Analyst(s)

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Leslie McCluskeyEissing (3)

Christina Walker, Laboratory Manager
or other approved signatory

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Initial report from 05/11/2015 14:39:19

EMSL Analytical, Inc.
161 John Roberts Road, South Portland, ME 04106
Phone/Fax: (207) 517-6921 / (207) 517-6922
http://www.EMSL.com portlandlab@emsl.com

EMSL Order:	621500803
CustomerID:	CRED25
CustomerPO:	14001247
ProjectID:	

Attn: **Judd Newcomb**
Credere Associates, LLC
776 Main Street
Westbrook, ME 04092

Phone:	(204) 828-1272
Fax:	(207) 887-1051
Received:	05/08/15 1:45 PM
Analysis Date:	5/11/2015
Collected:	5/7/2015

Project: **Madeira/14001247**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
CA-ACM-10C *621500803-0030*	LOWER BUILDING - EXT. WINDOW CAULK							**Stop Positive (Not Analyzed)**
CA-ACM-11A *621500803-0031*	LOWER BUILDING - INT. WINDOW CAULK	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
CA-ACM-11B *621500803-0032*	LOWER BUILDING - INT. WINDOW CAULK	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
CA-ACM-11C *621500803-0033*	LOWER BUILDING - INT. WINDOW CAULK	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
CA-ACM-12A *621500803-0034*	LOWER BUILDING, REAR OFFICE - 12X12 V.F.T.	Brown Non-Fibrous Homogeneous			95%	Non-fibrous (other)	**5%**	**Chrysotile**
CA-ACM-12B *621500803-0035*	LOWER BUILDING, REAR OFFICE - 12X12 V.F.T.							**Stop Positive (Not Analyzed)**
CA-ACM-12C *621500803-0036*	LOWER BUILDING, REAR OFFICE - 12X12 V.F.T.							**Stop Positive (Not Analyzed)**
CA-ACM-13A *621500803-0037*	LOWER BUILDING, REAR - CEILING TILE	White Fibrous Homogeneous	65%	Min. Wool	30%	Non-fibrous (other)	**2%** **3%**	**Chrysotile** **Amosite**

Analyst(s)

Christina Walker (16)
Leslie McCluskeyEissing (3)

Christina Walker, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. South Portland, ME

Initial report from 05/11/2015 14:39:19

EMSL Analytical, Inc.
161 John Roberts Road, South Portland, ME 04106
Phone/Fax: (207) 517-6921 / (207) 517-6922
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CustomerID:	CRED25
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Attn: **Judd Newcomb**
Credere Associates, LLC
776 Main Street
Westbrook, ME 04092

Phone:	(204) 828-1272
Fax:	(207) 887-1051
Received:	05/08/15 1:45 PM
Analysis Date:	5/11/2015
Collected:	5/7/2015

Project: **Madeira/14001247**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
CA-ACM-13B *621500803-0038*	LOWER BUILDING, REAR - CEILING TILE				**Stop Positive (Not Analyzed)**
CA-ACM-13C *621500803-0039*	LOWER BUILDING, REAR - CEILING TILE				**Stop Positive (Not Analyzed)**

Analyst(s)

Christina Walker (16)
Leslie McCluskeyEissing (3)

Christina Walker, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. South Portland, ME

Initial report from 05/11/2015 14:39:19

APPENDIX F

DATA USABILITY ASSESSMENT

Data Usability Assessment (DUA)
Madeira Property, NHDES #201501001
42 Franklin Street, 27 Bayside Court, and 30 Bayside Court, Laconia, NH
Phase II Environmental Site Assessment

Credere has reviewed the following laboratory analytical data reports for precision, bias, accuracy, representativeness, comparability, and completeness:

- Absolute Resource Associates Job ID 32937
- Absolute Resource Associates Job ID 33130
- Absolute Resource Associates Job ID 32938

The following samples were included in the above reports and were reviewed as part of this DUA:

Field Sample ID	Laboratory Sample ID
CA-SB-1 (6-8)	32937-001
CA-SB-3 (2-4)	32937-003
CA-SB-3 (4-6)	32937-005
CA-SB-4 (8-10)	32937-007
CA-SB-6 (6-8)	32937-009
CA-SB-8 (6-8)	32937-011
CA-SS-1	32937-013
CA-SS-3	32937-015
CA-SS-5	32937-017
CA-MW-1	33130-001
CA-MW-3	33130-003
CA-MW-5	33130-005
CA-MW-9	33130-007
Trip Blank	33130-010
CA-PCB-2	32938-002
CA-PCB-4	32938-004
CA-PCB-6	32938-006
CA-PCB-8	32938-008
CA-PCB-10	32938-010

Field Sample ID	Laboratory Sample ID
CA-SB-2 (4-6)	32937-002
CA-DUP	32937-004
CA-SB-4 (0-2)	32937-006
CA-SB-5 (4-6)	32937-008
CA-SB-7 (4-6)	32937-010
CA-SB-9 (12-14/12.5)	32937-012
CA-SS-2	32937-014
CA-SS-4	32937-016
Trip Blank	32937-018
CA-MW-2	33130-002
CA-MW-4	33130-004
CA-MW-8	33130-006
CA-MW-DUP	33130-008
CA-PCB-1	32938-001
CA-PCB-3	32938-003
CA-PCB-5	32938-005
CA-PCB-7	32938-007
CA-PCB-9	32938-009
CA-PCB-DUP	32938-011

CA-DUP is a field duplicate of CA-SB-3 (2-4)
CA-MW-DUP is a field duplicate of CA-MW-3
CA-PCB-DUP is a field duplicate of CA-PCB-6

General Summary

In general, the data reviewed for this project are usable for making project decisions. Data are considered representative with regard to the sample design as the highest detected concentrations were generally found in the samples collected from the most obviously contaminated soil (i.e., the fill material). Data qualified as estimated (UJ) were evaluated relative to the respective regulatory criteria. Generally, the qualification is not expected to alter conclusions drawn from the data.

Precision

Precision is a measure of the mutual agreement between concentrations of samples (e.g., duplicates) collected at the same time from the same location. Precision is measured by performing duplicate measurements in the field or laboratory. Precision is expressed in terms of relative percent difference (RPD) using the following equation:

$$RPD = [(C1-C2) /(C1+C2)/2)] \times 100$$

Where:
C1 = The larger of the two concentrations.
C2 = The smaller of the two concentrations.

The following duplicate samples were collected during this Phase II ESA:

- CA-DUP: Duplicate soil sample collected from CA-SB-3 (2-4)
- CA-MW-DUP: Duplicate groundwater sample collected from CA-MW-3
- CA-PCB-DUP: Duplicate PCB-containing building material sample from CA-PCB-6

All analyte results were either non-detect (for at least one of the samples), less than 5 times the laboratory practical quantitation limit (PQL), or the calculated RPDs were less than the acceptable limit of 50% for soil and 30% for groundwater with the exception of the following:

- The percent difference between reported results for phenanthrene (53.65%) varied by more than the allowable 50% for soil duplicates. This variability is only slightly higher than the allowable limit and is attributed to sample non-homogeneity. All other results were within the allowable limits; therefore, this variability is not attributed to laboratory precision.

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 in obtaining meaningful data quality estimates.

Matrix spike and matrix spike duplicate samples (MS/MSD) were used to assess bias as prescribed in EPA Method 6010C and 7471B/7470A. Recovery values were within the recoveries specified by each of the analysis methods. Control samples for assessing bias were analyzed at a rate as specified in the analytical SOPs and specified analytical methods. Recovery values were within the recoveries specified by each of the analysis methods, except for the following:

- The matrix spike and lab duplicate percent recoveries for SVOCs in soil were below the acceptable range for fluoranthene, phenanthrene, and hexachloropentadiene. Since the matrix spike analyzed with the batch was not associated with any of the soil samples submitted by Credere, data is not considered impacted by this non-conformance.
- The matrix spike duplicate percent recovery for lead in soil was above the acceptable range affecting soil samples CA-SB-1 (6-8), CA-SB-2 (4-6), CA-SB-3 (2-4), CA-DUP, CA-SB-3 (4-6), CA-SB-4 (0-2), CA-SB-4 (8-10), CA-SB-5 (4-6), CA-SB-9 (12-14), and CA-SS-1. Since the matrix spike analyzed with the batch was not associated with any of the soil samples submitted by Credere, data is not considered impacted by this non-conformance.

The laboratory 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 laboratory reports any compounds that had failing RPDs in the LCS/LCSD pair or the MS/MSD pair. This indicates the percent difference between the laboratory sample and its duplicate or the spike and it's duplicate. The following were reported by the laboratory as being outside their acceptable limits:

- The LCS and LCSD for VOCs percent recovery for bromomethane was below the lower limit affecting all soil samples. Since less than 10% of compounds were affected, reanalysis was not required and data is not expected to be impacted by this non-conformance.
- The LCS for SVOCs percent recovery for hexachlorocyclopentadiene was below the lower limit affecting all soil samples. Since less than 10% of compounds were affected, reanalysis was not required and data is not expected to be impacted by this non-conformance.
- The LCS and LCSD for VOCs percent recovery for 2,2-dichloropropane was below the lower limit affecting groundwater samples CA-MW-3 and CA-MW-DUP. Since less than 10% of compounds were affected, reanalysis was not required and data is not expected to be impacted by this non-conformance.
- The LCS and LCSD for SVOCs percent recovery for N-nitrosodimethylamine, phenol, and hexachlorocyclopentadiene were below the lower limit and the percent recovery for pentachlorophenol was above the upper limit affecting all groundwater samples. Since less than 10% of compounds were affected, reanalysis was not required and data is not expected to be impacted by this non-conformance.
- The RPD for SVOCs hexachloroethane, hexachlorobutadiene, and dimethylphthalate were above the allowable limit affecting all groundwater samples. Since the associated percent recoveries for these analytes were within the allowable range, data is not expected to be impacted by this non-conformance.

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 and PAHs, surrogate compound recoveries are also used to assess accuracy and method performance for each sample analyzed. Analysis of performance evaluation samples are also 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 following non-conformances were identified:

- The surrogate percent recoveries for 2-fluorobiphenyl was below the laboratory established lower limit affecting the base-neutral analysis of sample CA-SS-4. Per the method, this sample was re-extracted from the remaining sample volume; however, were extracted beyond the allowed holding time for extraction. Therefore, both sets of results were reported by the laboratory. The two data sets showed slight variability. Since the difference between the initial and re-extracted results varied enough to fall on either side of the RAGs for some compounds, the highest results for each compound of the two data sets were reported as a conservative approach. Since the reported results were either extracted beyond their hold times or had surrogate percent recovery non-conformances, the data may be biased low; however, the low bias is considered marginalized by reporting the higher of the two data sets and it is Credere's opinion that the data are not significantly affected by this non-conformance and do not require qualification. Results that did not exceed the laboratory reporting limits during either analysis are considered estimated (UJ) since concentrations are not available for comparison.
- The surrogate percent recoveries for 2-fluorophenol was below the laboratory establish lower limit affecting the acid analysis of sample CA-MW-9. Since only one of the three acid surrogates was out of range, data is not considered impacted by this non-conformance.

Representativeness

Sample representativeness was assessed through an analysis of the blank results. The concentrations and frequencies of target analytes detected in blanks provide an indication of data representativeness. The five times and ten times rules were used judiciously to eliminate potential false positive results indicated by the blank data. Regulatory criteria were considered when using the five and ten times rule to avoid elevation of the reporting limit above the criteria for certain compounds. No non-conformances were identified during data evaluation.

Sample representativeness was also assessed through an evaluation of the sample results compared to the sample design (locations and conceptual site model) to determine if the results are representative of the environment from which the samples were collected.

All objectives for sampling and analytical representativeness for samples that were analyzed, as specified in the SSQAPP Addendum, were met.

Comparability

Comparability is the confidence with which one data set can be compared to another data set (i.e. how well the data can be reproduced). 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.

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 were not analyzed due to holding time violations, samples spilled or broken, or any other reason.