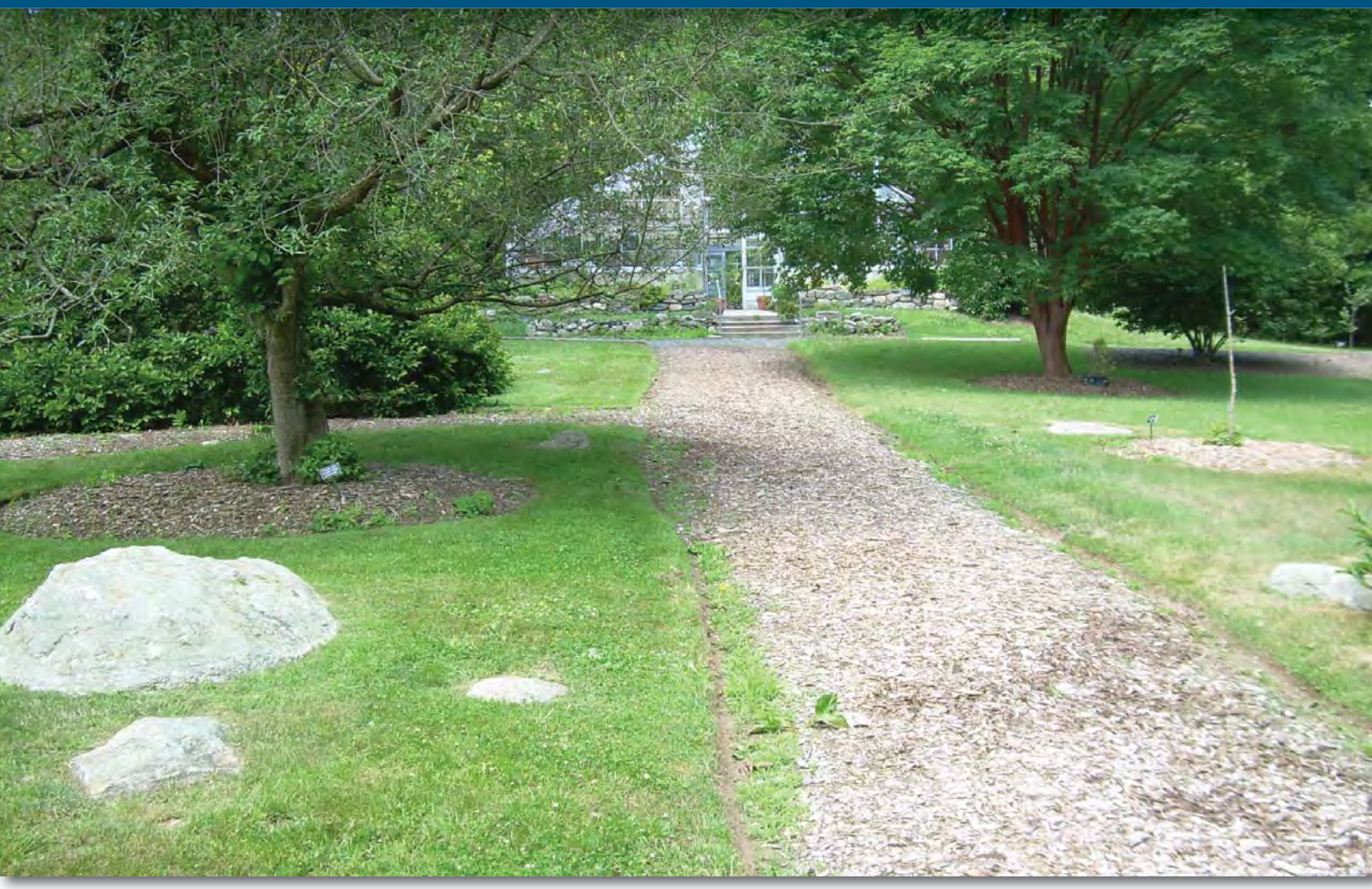
REMEDIAL ACTION REPORT
BARTLETT ARBORETUM

Site Location
151 Brookdale Road, Stamford, Connecticut



Site Owner

The City of Stamford
Stamford, Connecticut

Prepared by

TRC Environmental Corporation
Windsor, Connecticut 06095

MARCH 2014

REMEDIAL ACTION REPORT
Bartlett Arboretum

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151 Brookdale Road
Stamford, Connecticut

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Prepared by

TRC Environmental Corporation
Windsor, Connecticut

TRC Project No. 209285.000000.000000
March 2014

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1.0 INTRODUCTION

TRC Environmental Corporation (TRC) has prepared this remedial action report (RAR) to document the approach, procedures and results of the remedial activities designed to address impacts to soil in six separate areas at the Bartlett Arboretum located at 151 Brookdale Road in Stamford, Connecticut. A site location map is presented as Figure 1, while a site plan depicting the Bartlett Arboretum property is presented as Figure 2.

This RAR describes the remedial activities that took place at the Bartlett Arboretum between October and December 2013. The remedial activities described in this RAR were performed according to a Remedial Action Plan (RAP) prepared by TRC, dated February 2012. The RAP was developed based on information from previous investigations, including a Phase I environmental site assessment (ESA) conducted by TRC (September 2010) and a Phase II ESA completed by TRC (July 2011). In addition, at the request of the City of Stamford, TRC also collected surface soil samples in the lawn area located to the east of the greenhouse in October 2013. The results of this sampling effort are also discussed in this report.

As indicated in the RAP for the Bartlett Arboretum, although the site is not currently subject to the requirements of the Transfer Act, the Voluntary Cleanup Program nor a consent order, the remedial criteria for soil utilized at the subject site, as described in 22a-133k-2(a) of the Regulations of Connecticut State Agencies, are the Residential Direct Exposure Criteria (RDEC) and the ground water classification "GA" Pollutant Mobility Criteria (GA PMC). As also indicated in the RAP, the objectives of the remedial action at the Bartlett Arboretum were: (1) to excavate soils exhibiting elevated concentrations of pesticides and elevated concentrations of arsenic and lead that exceeded the RDEC and the GA PMC; (2) to protect the health of those that will be working at the site and in the surrounding community; and (4) to create no adverse impacts to the environment during remedial activities.

To achieve compliance with the soil standards, several remedial options were evaluated based on effectiveness relative to the constituents of concern (COCs) identified in this area (pesticides, arsenic and lead), as well as practicality, timing and cost. Based on several factors considered as part of the remedial action feasibility study, the method chosen to remediate the impacted soils at the Bartlett Arboretum was excavation. Specifically, the approach included excavating the impacted soils at six locations across the site and backfilling with suitable material.

It was not the intent to remediate ground water at the site, but rather to mitigate potential impacts to ground water by remediating soil release areas. Also, prior investigations conducted across the site have demonstrated that ground water across the site has not been impacted.

The activities associated with meeting the objectives outlined in the RAP and described in this RAR included: directing the excavation contractor, Environmental Services, Incorporated (ESI) of South Windsor, Connecticut to ensure that the elements of the RAP and associated specifications were carried out correctly, collecting confirmation soil samples, overseeing the stockpiling of contaminated soils and generally documenting all activities associated with the remedial activities.

2.0 SITE DESCRIPTION AND BACKGROUND

2.1 Site Description

The Bartlett Arboretum and Gardens (see Figure 2), currently owned by the City of Stamford, has been an arboretum since 1965 when the site was purchased by the State of Connecticut from the F. A. Bartlett Tree Expert Company. Prior to 1965 the F.A. Bartlett Tree Expert Company used the site as a tree research and training facility (see Phase II ESA, Section 1.4.2 for additional information). Other activities that have taken place at the site since 1965 have included limited amounts of research and educational courses. The parcel of land on which the site is located consists of approximately 64 acres.

There are currently five structures located in the southwestern portion of the site, including the visitor center (also known as the main house), a cottage (used primarily for storage), a maintenance garage, a greenhouse, and the Silver Education Center. A previous structure (the former education center building) was located within the footprint of the Silver Education Center. The former education center building was demolished during the summer of 2010. The remainder of the southwestern portion of the site contains two small asphalt-paved parking areas, lawn areas, and numerous gardens and plant collections.

The majority of the central portion of the site is comprised of forested land, several acres of wetlands, and a small pond. A small open meadow is located in the eastern portion of the site, along High Ridge Road.

The area surrounding the site is comprised primarily of residential properties, with the exception of the Scofield Magnet School, which is present to the northwest of the site.

2.2 Site Geology/Hydrogeology

As indicated on the Bedrock Geologic Map of Connecticut (Rogers, 1985), the Site is located in the Western Uplands. The Site is underlain by a schist and granulite member of the Trap Falls Formation, which is described as an interlayered gray to silvery, medium- to course-grained schist and fine-grained granofels. Bedrock was encountered between 2 and 18 feet below grade during the Phase II investigation conducted by TRC.

According to the Surficial Materials Map of Connecticut (Stone et al, 1992), the majority of the Site is underlain by thin till. Additional information presented on the mapping indicates that

areas of thin till are characterized as areas where till is generally less than 15 feet thick and include areas of bedrock outcrop where till is absent. These areas are generally comprised of upper till and are loose to moderately compact, generally sandy and commonly stony. Observations made during the Phase II investigation are consistent with the information presented on the Surficial Materials Map of Connecticut.

The Site is depicted on the United States Geological Survey (USGS) Pound Ridge, New York quadrangle topographic map (Figure 1). The Site elevation is approximately 267 ft above mean sea level (MSL); local topography slopes to the east. The anticipated direction of ground water flow is to the east. In general, ground water was encountered in the borings advanced across the site during the Phase II investigation at depths ranging from 1 to 15 feet below grade. The CTDEEP has designated ground water in the vicinity of the Site with the "GA" ground water classification.

2.3 Environmental History

As indicated above, Phase I and Phase II investigations were conducted at the site in 2010 and 2011, respectively. The following is a summary of the findings of the investigations. Table 1, which summarizes the analytical findings of the areas identified during the investigations, is included as supporting documentation. Figure 2 shows the Phase II sampling locations and Figures 3 through 5 shows the impacted areas defined as a result of the investigations.

Drilling of soil borings and installation of seven temporary ground water monitoring wells at the site confirmed that the site is generally underlain by silt with some fine-to-medium sand and varying amounts of gravel. Depth to water at the site was observed to range from 1.5 to 12 feet below grade (ftbg). The results of the soil sampling conducted as part of the Phase II investigation indicated the primary constituents of concern in soil are pesticides, arsenic and lead. The following is a summary, by constituent, of the investigation findings:

Pesticides

One or more of the pesticides 4,4-DDE, 4,4-DDT and 4,4-DDD with concentrations that exceed their respective RDEC were detected in three soil samples (SB-10 (0-2), SB-24 (0-2) and SB-25 (0-2)). Sample location SB-10 (0-2) was located within the Area of Concern (AOC) identified in the Phase II as AOC-1 and, more definitively, along the southern portion of the property just west of Poorhouse Brook. Samples SB-24 (0-2) and SB-25 (0-2) were

both located within Potential Area of Concern (PAOC)-9 (the former Bartlett Tree Surgery School), which is centered along the southern portion of the property, just east of Poorhouse Brook. The pesticide impacts were shallow in depth and were likely associated with topical applications.

Arsenic

Elevated concentrations of arsenic that exceed the RDEC were detected in soil samples SB-5 (0-2), SB-6 (0-2), and SB-20 (0-5). In addition, samples SB-5 (0-2) and SB-20 (0-2), had leachable concentrations that exceeded the GA PMC (but that were not present at hazardous levels). Samples SB-5 (0-2) and SB-6 (0-2) were located within AOC-1 towards the central western portion of the property. Sample SB-20 (0-2) was located within AOC-6 in the vicinity of the former barn. The elevated concentrations of arsenic at these locations were likely due to a combination of naturally occurring elemental arsenic and topical applications of pesticides containing arsenic, as evident by the presence of arsenic in both the shallow soils (0 to 2 ftbg) and deeper soils consistently across the site. As noted in the Phase II report, a slightly elevated concentration of arsenic was detected in the sample SB-29 (0-2) located in PAOC-11. The arsenic concentration at this location is presumed to be representative of background concentrations (as stated above).

Lead

A concentration of leachable lead in excess of the GA PMC was also detected in the soil sample SB-5 (0-2). As with the elevated concentration of arsenic in this particular sample, the leachable lead was also likely due to pesticide applications.

The appropriate remedial actions for the contaminated soil on the site are outlined in the following sections. A feasibility analysis was completed to develop an efficient and cost-effective remediation technology for the contaminated soil. Targeted soil removal centered on the six soil borings noted above was the selected remedial approach for the Bartlett Arboretum.

3.0 REMEDIATION ACTIVITIES / SOIL CONFIRMATION SAMPLE RESULTS

Soil remediation activities were conducted at the Bartlett Arboretum between October and December 2013. All of the remediation was conducted by ESI of South Windsor, Connecticut, under direct contract with the City of Stamford and under the direct supervision of TRC personnel. Each of the soil excavations were initially centered on the Phase II soil borings discussed in Section 2.3

This section of the report summarizes the general remediation procedures conducted at the Bartlett Arboretum, followed by the specific remedial activities conducted within each of the excavation areas, identified as EA-1 through EA-6 on Figures 3 through 6, as well as the results of the confirmation sampling completed within each excavated area. Photographs documenting the remedial activities are presented in Appendix A.

3.1 General Remediation Procedures

Prior to the initiation of remedial activities, each of the excavation areas was marked in the field with flags, temporary fencing and/or white paint. The excavation contractor notified "Call Before You Dig" prior to the initiation of intrusive work. Note that three of the excavation areas (EA-1 through EA-3) were located within a wetland and as such, appropriate clearance was obtained from the Stamford Environmental Protection Board (EPB) prior to completing work. In addition, a temporary bridge consisting of steel road plates was placed over an unnamed tributary to Poorhouse Brook so that the excavation equipment could reach EA-1 and EA-2 with minimal disturbance to the stream and wetland area. Hay bales were also placed around the perimeter of EA-1 through EA-3 as required by the Stamford EPB.

As outlined in the RAP, confirmatory samples from the base of the excavations were collected at a frequency of 1 sample per every 200 square feet of excavation for all analytes. For the sidewalls, confirmatory samples were collected at a frequency of 1 sample per 20 linear feet of excavation for every 5 feet of depth of the excavation. The minimum sampling consisted of the collection of four sidewall samples and one base sample. All confirmation soil samples were collected utilizing clean, dedicated sampling equipment, comprised of stainless steel spoons. Soils were collected directly from the sidewalls and the base of the excavation using the stainless steel spoons and then homogenized in clean stainless steel mixing bowls. Following homogenization, the soils were transferred from the bowl to appropriate laboratory-supplied sample containers and placed

in a cooler, with ice for transport to the laboratory. All samples were delivered directly to the laboratory at the end of each day under property chain-of-custody procedures. Each sample was analyzed for the COC identified within the AOC. Copies of the laboratory analytical results are presented in Appendix B.

Excavated soils were placed directly into lined 20 cubic yard roll-off containers. The roll-off containers were covered and secured in the visitor parking lot at the end of each work day and labeled appropriately. In addition, each excavation area was secured with caution tape at the completion of each work day and remained secured until backfilling was completed.

October 2013 Surface Soil Sampling

At the request of the City of Stamford, TRC collected two additional surface soil samples, identified as Lawn-1 and Lawn-2, from the lawn area located to the east of the Greenhouse (see Figure 2) on October 8, 2013, at the commencement of remedial activities. Both of the soil samples were collected from 0 to 2 ftbg and were analyzed by the laboratory for pesticides by EPA method 8081B and total RCRA 8 metals by EPA method 6010. As shown on Table 2, pesticides were not reported above analytical detection limits in either of the samples collected. The reported concentrations of metals were all below the RDEC. Based on the results of this sampling effort, no additional investigation or remediation appears warranted in this area.

3.2 Remedial Activities

Excavation Area 1 (EA-1)

Excavation Area 1 (EA-1) was located within AOC-9 as identified in the Phase I and Phase II ESAs. The area was excavated to the limits proposed in the RAP (ten feet long by ten feet wide by two feet deep, centered on the Phase II soil boring SB-25) on October 7, 2013 by ESI. Soil samples were collected from all four sidewalls and the bottom of the excavation and were analyzed for pesticides by EPA method 8081B. Detectable concentrations of the pesticides 4,4-DDD, 4,4-DDE and 4,4-DDT were reported in all of the samples collected except for the sample collected from the southern sidewall. Only the reported concentration of 4,4-DDT exceeded the RDEC in the sample collected from the northern sidewall. Based on the results of the initial confirmation sampling, ESI excavated additional soil from the northern sidewall on October 29, 2013. The reported

concentrations of pesticides in the soil sample collected from the new sidewall (identified as EA-1 North2) were below the applicable RDEC and GA PMC. Based on these results, EA-1 was backfilled on November 14, 2013. The analytical results for all of the confirmation soil samples are summarized in Table 3. Figure 3 shows the final excavation limits and confirmation sample locations.

Excavation Area 2 (EA-2)

Excavation Area 1 (EA-2) was also located within Potential Area of Concern AOC-9 as identified in the Phase I and Phase II ESAs. The area was excavated to the limits proposed in the RAP (ten feet long by ten feet wide by two feet deep, centered on the Phase II soil boring SB-24) on October 7, 2013 by ESI. Soil samples were collected from all four sidewalls and the bottom of the excavation and were analyzed for pesticides by EPA method 8081B. Detectable concentrations of the pesticides 4,4-DDD, 4,4-DDE and 4,4-DDT were reported in all of the samples collected. The reported concentrations of 4,4-DDE and/or 4,4-DDT exceeded the RDEC in all of the samples collected except for the samples collected from the northern sidewall and base of the excavation. Based on the results of the initial confirmation sampling, ESI excavated additional soil from the southern, western and eastern sidewalls on October 29, 2013. The reported concentrations of pesticides in the soil samples collected from the new southern and eastern sidewalls were below the applicable RDEC and GA PMC. The reported concentration of 4,4-DDT in the soil sample collected from the new western sidewall exceeded the RDEC. Additional soils were excavated from the western sidewall on November 14, 2013 and December 6, 2013. Based on the analytical results of soil sample collected from western sidewall on December 6, 2013, which was not reported to contain any concentrations of pesticides exceeding the RDEC or GA PMC, EA-2 was backfilled on December 20, 2013. The analytical results for all of the confirmation soil samples are summarized in Table 4. Figure 3 shows the final excavation limits and confirmation sample locations.

Excavation Area 3 (EA-3)

Excavation Area 3 (EA-3) was located within AOC-1 as identified in the Phase I and Phase II ESAs. The area was excavated to the limits proposed in the RAP (ten feet long by ten feet wide by two feet deep, centered on the Phase II soil boring SB-10) on October 7 and October 8, 2013 by ESI.

Soil samples were collected from all four sidewalls and the bottom of the excavation and were analyzed for pesticides by EPA method 8081B and total arsenic by EPA method 6010. Detectable concentrations of the pesticides 4,4-DDE and 4,4-DDT were reported in all of the samples collected. None of the reported concentrations of pesticides exceeded any applicable criteria. The reported concentration of arsenic slightly exceeded the RDEC in the soil samples collected from the southern and eastern sidewalls of the excavation. Based on the results of the initial confirmation sampling, ESI excavated additional soil from the southern and eastern sidewalls on October 29, 2013. The reported concentrations of arsenic in the soil samples collected from the new sidewalls were below the applicable RDEC. Based on these results, EA-3 was backfilled on November 14, 2013. The analytical results for all of the confirmation soil samples are summarized in Table 5. Figure 3 shows the final excavation limits and confirmation sample locations.

Excavation Area 4 (EA-4)

Excavation Area 4 (EA-4) was located within AOC-1 as identified in the Phase I and Phase II ESAs. The area was excavated to the limits proposed in the RAP (ten feet long by ten feet wide by two feet deep, centered on the Phase II soil boring SB-6) on October 8, 2013 by ESI. Soil samples were collected from all four sidewalls and the bottom of the excavation and were analyzed for total arsenic by EPA method 6010. Detectable concentrations of arsenic were reported in all of the samples collected. None of the reported concentrations of arsenic exceeded any applicable criteria. Based on these results, EA-4 was backfilled on December 19, 2013. The analytical results for all of the confirmation soil samples are summarized in Table 6. Figure 4 shows the final excavation limits and confirmation sample locations.

Excavation Area 5 (EA-5)

Excavation Area 5 (EA-5) was located within AOC-1 as identified in the Phase I and Phase II ESAs. The area was excavated to the limits proposed in the RAP (ten feet long by ten feet wide by two feet deep, centered on the Phase II soil boring SB-5) on October 8, 2013 by ESI. Soil samples were collected from all four sidewalls and the bottom of the excavation and were analyzed for total and SPLP arsenic and lead by EPA method 6010/6020A. Detectable concentrations of total arsenic and lead were reported in all of the samples collected. The reported concentration of total arsenic

exceeded the RDEC in the soil sample collected from the eastern sidewall. None of the reported concentrations of total lead exceeded any applicable criteria. Detectable concentrations of leachable lead were reported in the samples collected from the western and eastern sidewalls of the excavation. Based on these results, ESI excavated additional soil from the western and eastern sidewalls of the on October 29, 2013. The analytical results of the confirmation samples collected from the new eastern and western sidewalls indicated that soils in the western sidewall continued to exceed the RDEC for arsenic. Based on these results, additional soil was excavated from the western sidewall on November 14, 2013. While the reported concentration of arsenic continued to slightly exceed the RDEC, it was determined that compliance with the RDEC for arsenic within AOC-1 (where EA-5 is located) could be achieved by calculating the 95 % Upper Confidence Level (UCL) for arsenic, as allowed for in the RSRs. Therefore, EA-5 was backfilled on November 14, 2014. The analytical results for all of the confirmation soil samples are summarized in Table 7. Figure 4 shows the final excavation limits and confirmation sample locations. The results of the 95 percent UCL calculation for AOC-1 are discussed in Section 3.2.

Excavation Area 6 (EA-6)

Excavation Area 6 (EA-6) was located within AOC-6 as identified in the Phase I and Phase II ESAs. The area was excavated to the limits proposed in the RAP (ten feet long by ten feet wide by two feet deep, centered on the Phase II soil boring SB-10) on October 8, 2013 by ESI. Soil samples were collected from all four sidewalls and the bottom of the excavation and were analyzed for total and SPLP arsenic EPA method 6010/6020A. Detectable concentrations of total arsenic were reported in all of the samples collected. The reported concentration of total arsenic exceeded the RDEC in the soil sample collected from the southern sidewall. Leachable arsenic was not reported above analytical detection limits in any of the confirmation soil samples. Based on these results, ESI excavated additional soil from the southern sidewalls on October 29, 2013 and again on November 14, 2013. The analytical results of the confirmation sample collected from the final southern sidewall were below the RDEC for arsenic. Therefore, EA-6 was backfilled on December, 2014. The analytical results for all of the confirmation soil samples are summarized in Table 8. Figure 5 shows the final excavation limits and confirmation sample locations.

3.3 AOC-1: 95 Percent UCL Calculation

As previously mentioned, the 95 % UCL for arsenic was calculated for all of AOC-1 at the completion of excavation activities. The calculations incorporate data from the Phase II investigation and the confirmation sampling efforts within AOC-1. The dataset utilized for the calculation is presented as Table C-1 in Appendix C. TRC used ProUCL Version 4.1 (2009), a statistical program developed for the United States Environmental Protection Agency (USEPA) to calculate the 95 % UCL of the dataset. The resultant calculation sheet is provided in Appendix C, following Table C-1, for total arsenic. As indicated in the ProUCL calculation summary sheet for arsenic provided in Appendix C, a value of 5.75 ppm was calculated using the method suggested by the program (the 95 % Approximate Gamma UCL). Therefore, soils remaining in AOC-1 are in compliance with the total arsenic RDEC of 10 ppm.

4.0 WASTE MANAGEMENT

4.1 Soil Disposal

All of the soils that were excavated during the remediation were placed directly into lined 20 cubic yard roll-off containers by ESI. ESI collected disposal characterization soil samples on October 8, 2013 and December 20, 2013. The results of the disposal characterization sampling indicated the soil material generated was suitable for disposal at the Ontario County Landfill in Stanley, New York. Approximately 75 tons of soil from all six excavation areas was transported off-site for disposal on January 17, 2014 by ESI. Copies of the soil disposal documentation are included in Appendix D.

5.0 BACKFILLING AND RESTORATION

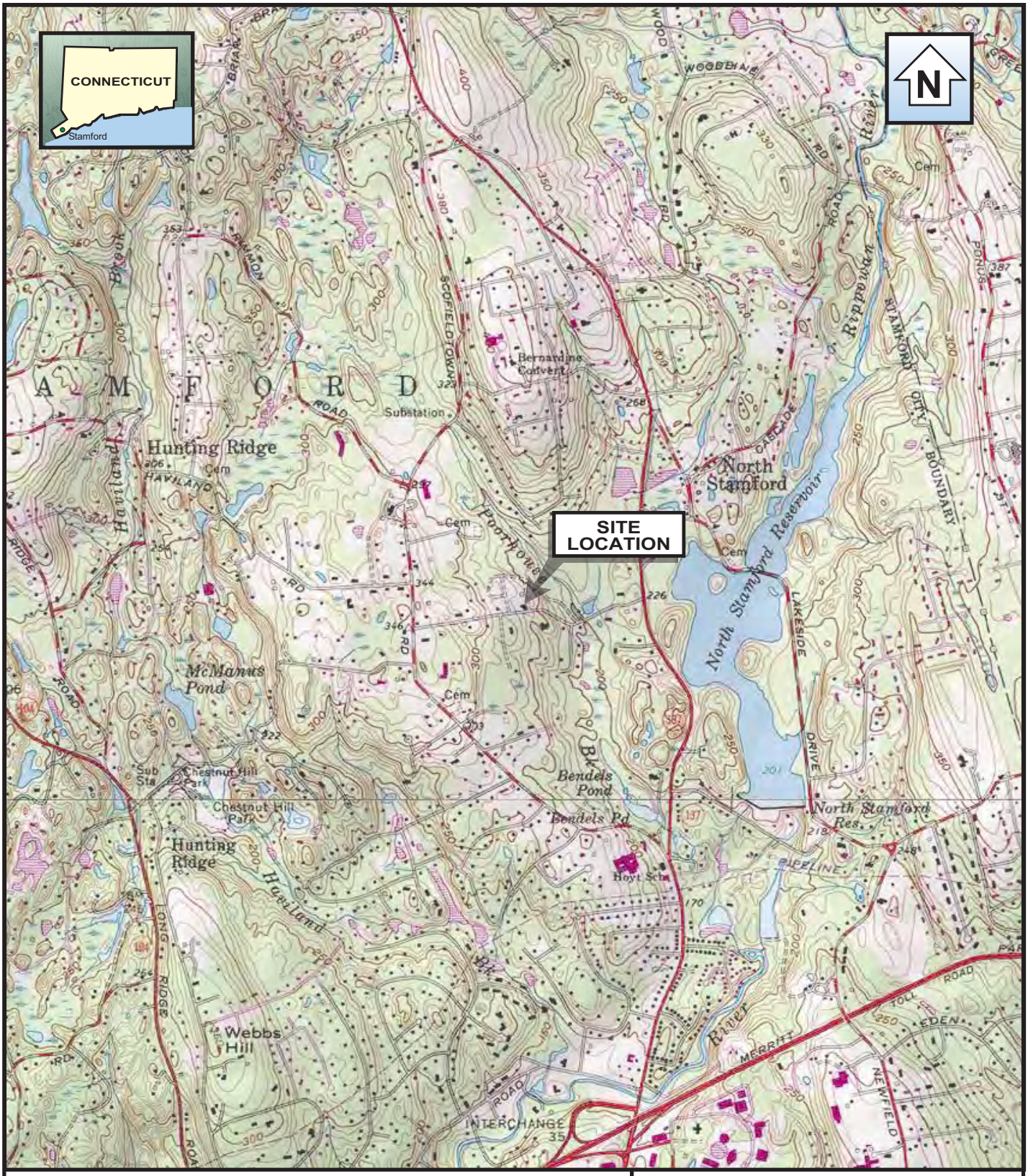
Once the analytical results had been received from the laboratory indicating that no additional excavation was required, all of the excavation areas were backfilled with suitable backfill material procured by ESI. Each of the excavation areas was backfilled and compacted to match the original grade. As none of the excavation areas were located within grassed areas, seeding of the areas was not required.

6.0 CONCLUSIONS

This report documents the remediation activities that were completed at the Bartlett Arboretum in Stamford, Connecticut. The work was completed in accordance with the RAP prepared by TRC for the site in February 2012. Soils impacted with arsenic, lead and pesticides were excavated and transported off-site for disposal at the Ontario County Landfill in Stanley, New York by ESI. The results of the 95 % UCL calculation performed for AOC-1 demonstrates that soils are compliant with the RDEC for arsenic.

It is TRC's opinion that the investigation and remediation at the Bartlett Arboretum has been conducted in accordance with prevailing standards and guidelines and that remediation has achieved cleanup in accordance with the RSRs.

FIGURES



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BASE CREATED WITH TOPO™ © 1996 WILDFLOWERS PRODUCTIONS,
www.topo.com 7.5' USGS TOPOGRAPHIC MAP

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BARTLETT ARBORETUM
STAMFORD, CONNECTICUT

FIGURE 1
SITE LOCATION MAP

Date: 07/10 | **Project No.** 177467.0000.000000

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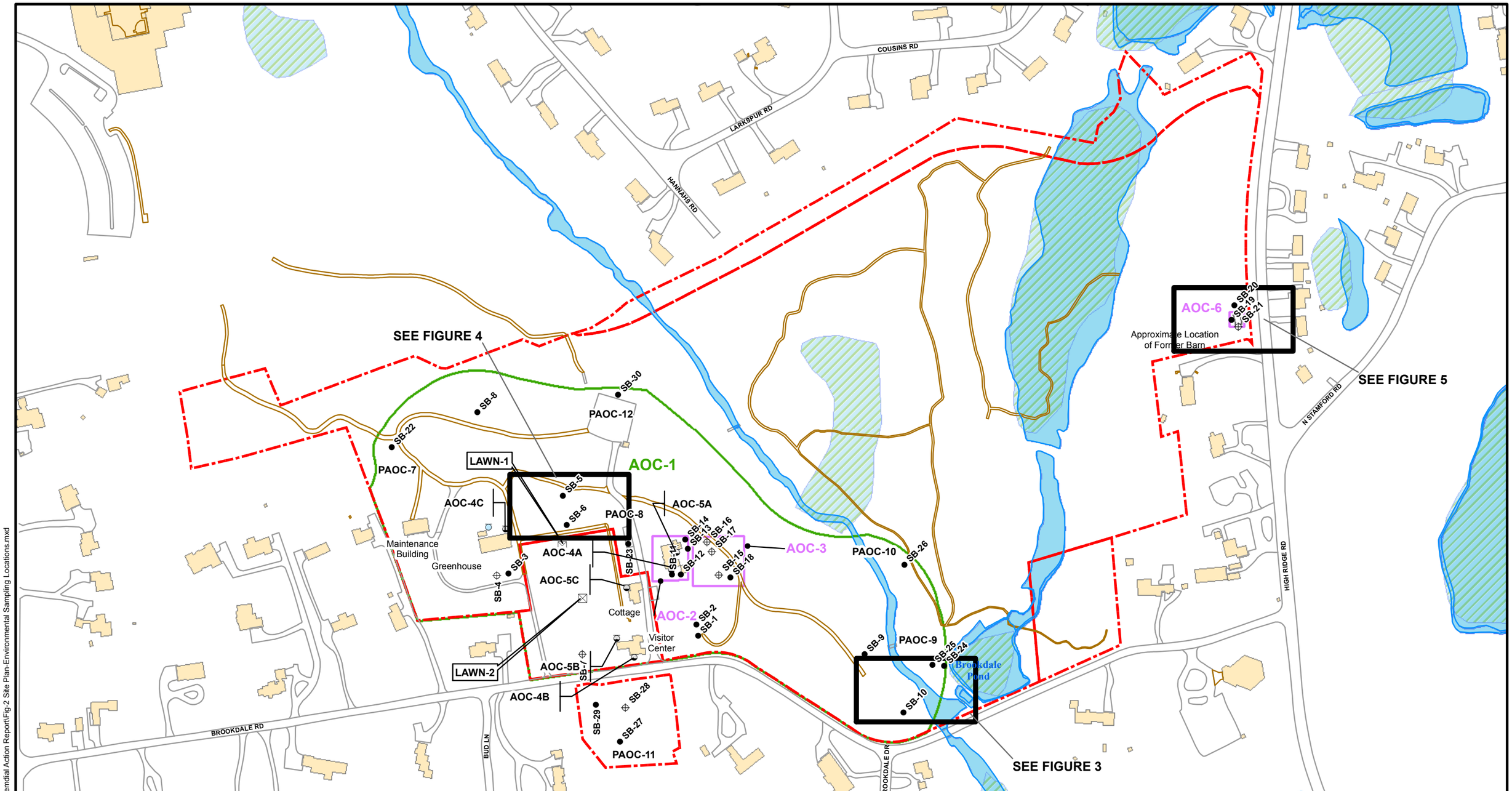

Legend

- Subject Property
- Stream
- Wetland
- Former Structure
- Walkway
- Roadways
- Building Footprint

AOC Areas

- AOC-2, 3 & 6
- AOC-1

Features

- Drain
- Leach Pit
- Prop Tank
- UST

Sampling Locations

- Boring/Well
- Soil Boring
- TRC Test Pit Location

N W E S

0 250 500 Feet

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Bartlett Arboretum
Stamford, Connecticut

Site Plan - Environmental Sampling Locations

Figure: 2	Date: 03/14/14	Project No: 176301.0000.0000

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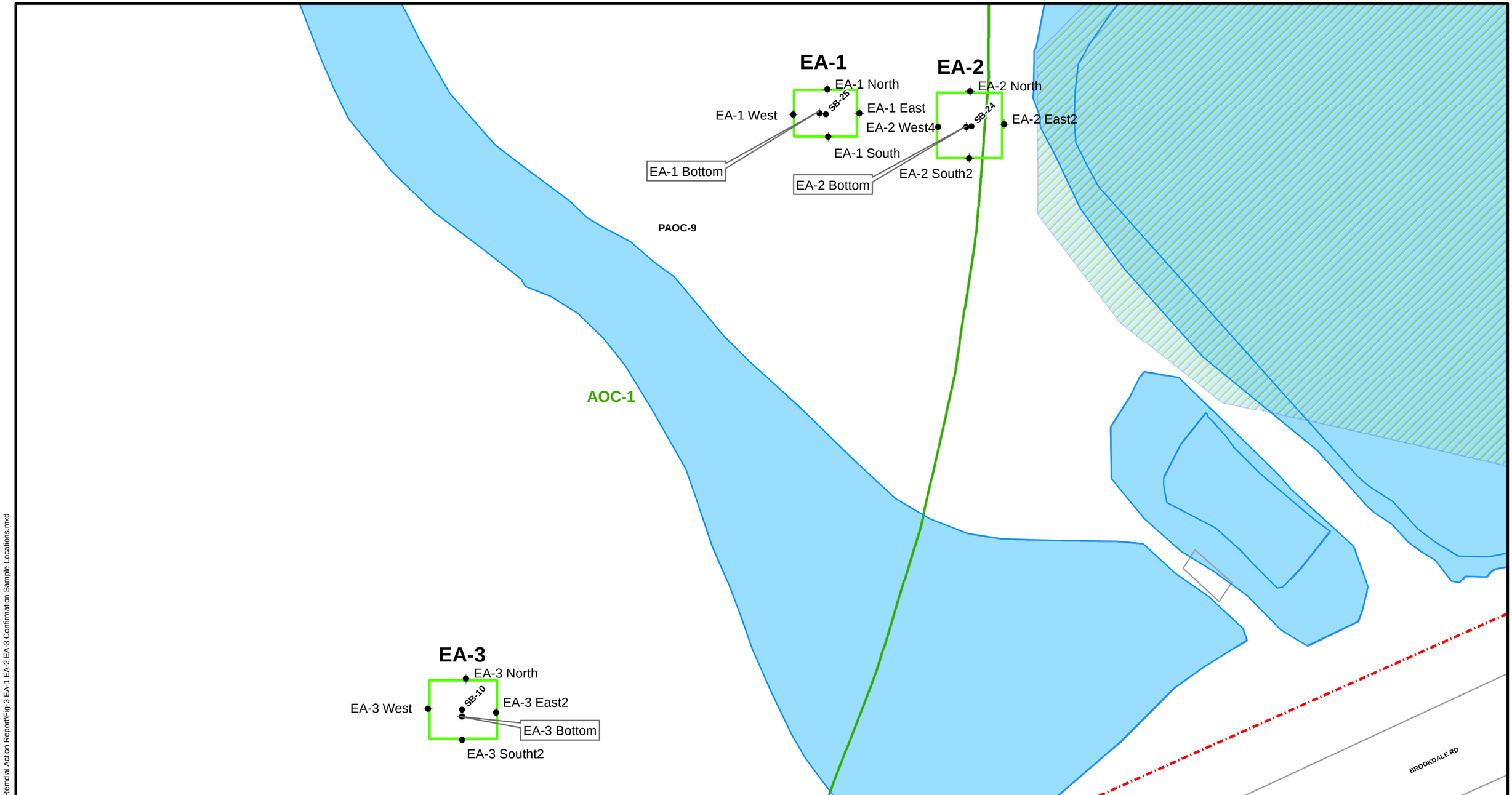

Legend

- Subject Property
- Stream
- Wetland
- Former Structure
- Walkway
- Roadways
- Building Footprint
- Excavation Area

AOC Areas

- AOC-2, 3 & 6
- AOC-1

Features

- Drain
- Leach Pit
- Prop Tank
- UST

Sampling Locations

- Boring/Well
- Soil Boring
- Confirmation Sample Location

N W E S

0 20 40 Feet

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Bartlett Arboretum
Stamford, Connecticut

EA-1, EA-2, AND EA-3
Final Excavation Limits and
Confirmation Sample Locations

Figure: 3	Date: 03/14/14	Project No: 176301.0000.0000

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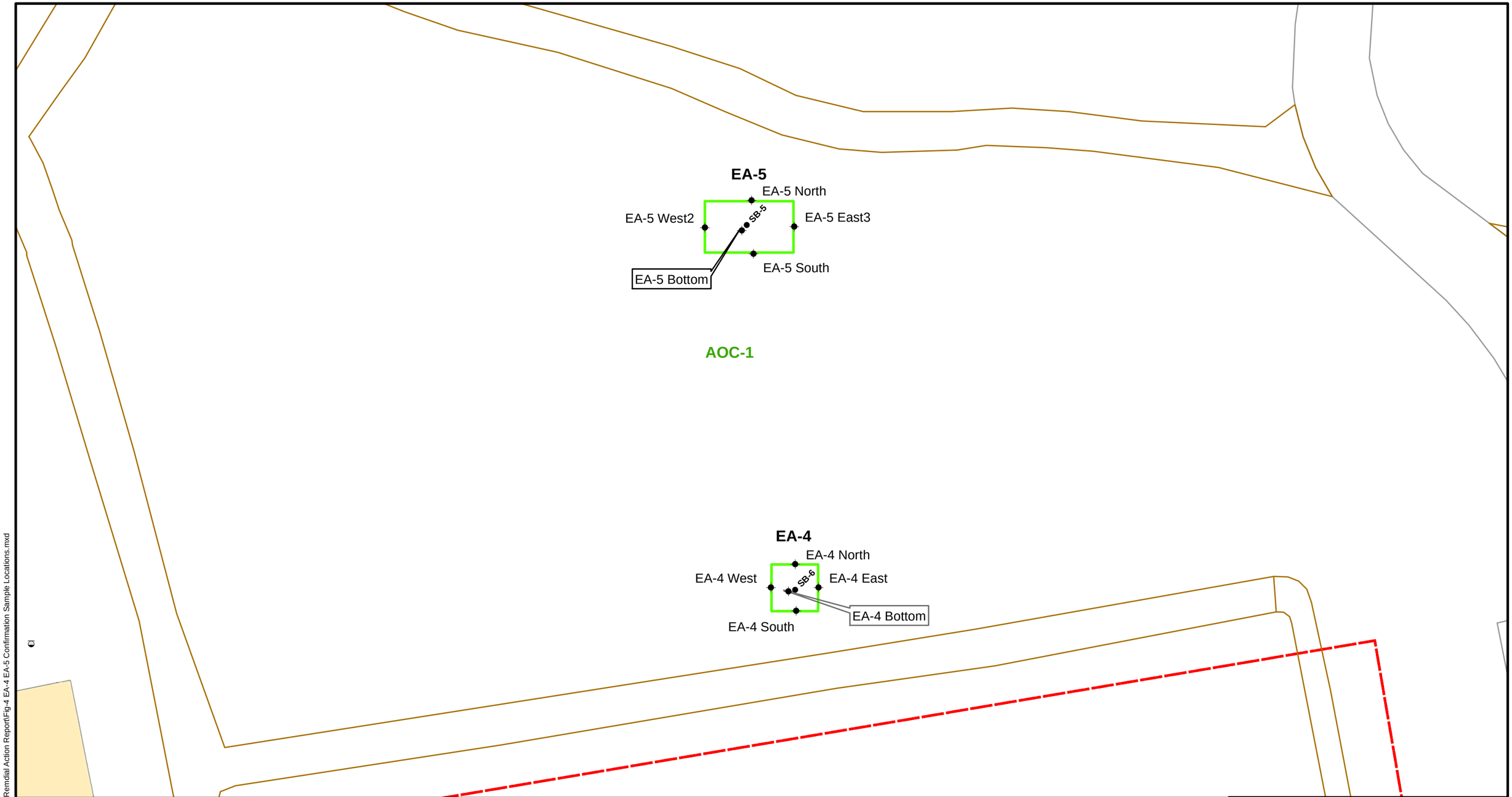

Legend

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AOC Areas

- AOC-2, 3 & 6
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- Drain
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- Prop Tank
- UST

Sampling Locations

- Boring/Well
- Soil Boring
- Confirmation Sample Location

N W E S

0 20 40 Feet

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Bartlett Arboretum
Stamford, Connecticut

EA-4, AND EA-5
Final Excavation Limits and
Confirmation Sample Locations

Figure: 4	Date: 03/14/14	Project No: 176301.0000.0000

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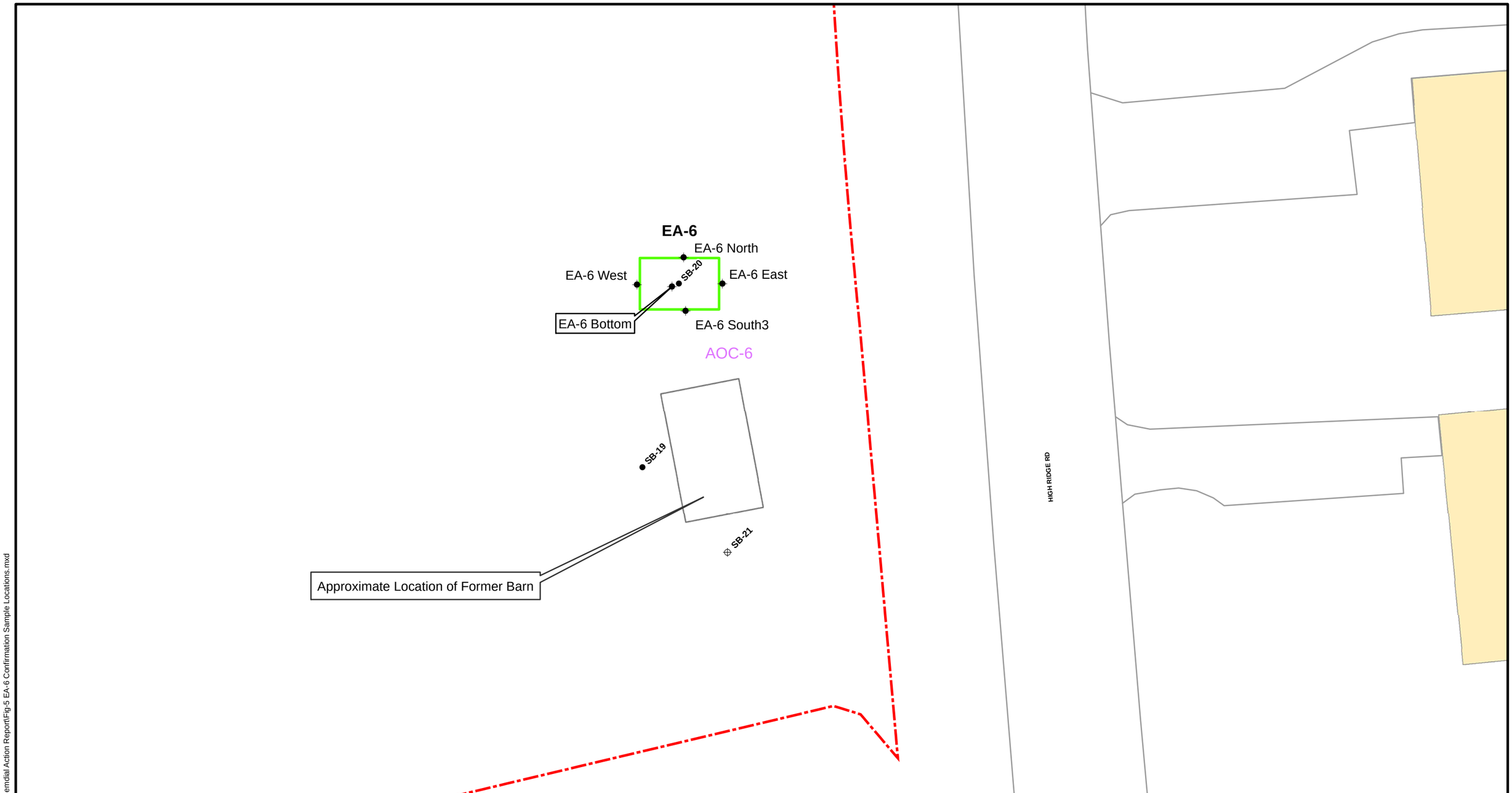

Legend

- Subject Property
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- Excavation Area

AOC Areas

- AOC-2, 3 & 6
- AOC-1

Features

- Drain
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- Prop Tank
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Sampling Locations

- Boring/Well
- Soil Boring
- Confirmation Sample Location

N W E S

0 20 40 Feet

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EA-6
Final Excavation Limits and Confirmation Sample Locations

Figure: 5	Date: 03/14/14	Project No: 176301.0000.0000

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TABLES

Table 1
Phase II Soil Sample Analytical Results
Bartlett Arboretum
Stamford, CT

Sample Designation: Sample Area Sample Interval (ft bgs): Sample Date: **Analytes**	**Units**	**SB-5(0-2)** **AOC-1** **0-2** **4/13/2011**	**SB-6(0-2)** **AOC-1** **0-2** **4/13/2011**	**SB-10(0-2)** **AOC-1** **0-2** **4/14/2011**	**SB-20(0-2)** **AOC-6** **0-2** **4/14/2011**	**SB-24(0-2)** **PAOC-9** **0-2** **4/18/2011**	**SB-25(0-2)** **PAOC-9** **0-2** **4/18/2011**	**CT RSR Criteria**	
								RES DEC	**GA PMC**
Chlorinated Pesticides by EPA Method 8081B					ND		ND		
4,4-DDE	ug/kg	160	43	**3,600E**		**6,600E**	**2,100**	1,800	NE
4,4-DDT	ug/kg			**6,000E**		**15,000E**	**5,100E**	1,800	NE
4,4-DDD	ug/kg			880		**3,200**	860	2,600	NE
SPLP Chlorinated Pesticides by EPA Method 8081B		NA	NA	ND	NA		ND		10 x GWPC
Dieldrin	ug/L					0.002		--	0.02
4,4-DDT	ug/L					0.14		--	1
Total CT RSR 15 Metals by EPA Method 6010									
Arsenic	mg/kg	**18**	**68**	29	**280**	5.9	9.1	10	--
Barium	mg/kg	66	79	51	56	80	52	4,700	--
Cadmium	mg/kg				1.5	1.3		34	--
Chromium	mg/kg	11	20	28	30	39	25	NE	--
Copper	mg/kg	13	25	49	18	27	16	2,500	--
Lead	mg/kg	72	240	89	65	100	39	400	--
Nickel	mg/kg	6.9	15	15	18	16	13	1,400	--
Vanadium	mg/kg	14	34	49	40	36	37	470	--
Zinc	mg/kg	52	70	79	**460**	120	54	20,000	--
SPLP CT RSR 15 Metals by EPA Method 6020A			ND	ND			ND		
Arsenic	mg/L	0.022			0.26			--	0.01
Lead	mg/L	0.032			0.014			--	0.015
Zinc	mg/L	0.034			0.11	0.042		--	5

Notes:
1) Only constituents which were detected are included in this table.
2) mg/kg = milligrams per kilogram; mg/L = milligrams per liter; ug/kg = micrograms per kilogram
3) RES DEC = Residential Direct Exposure Criteria; GA PMC = GA Pollutant Mobility Criteria
4) Total metals concentrations are comparable to the RES DEC only; SPLP concentrations are comparable to the GA PMC.
5) NE = Not established; ND = the analyte was not detected above the method detection limit (MDL).
6) Numbers in **BOLD** indicate the detected concentration exceeds the RES DEC.
Numbers that are shaded indicate the detected concentration exceeds the GA PMC.

Table 2
Soil Sample Analytical Results, Lawn Area
Bartlett Arboretum Remediation
Stamford, CT

Sample Designation: Sample Interval (ft bgs): Sample Date: Analytes	Units	LAWN-1 0-2 10/8/2013	LAWN-2 0-2 10/8/2013	FB100813 -- 10/8/2013 Field Blank	CT RSR Criteria	
					RES DEC	GA PMC
Chlorinated Pesticides by EPA Method 8081B		ND	ND	ND		
Total RCRA 8 Metals by EPA Method 6010				ND		
Arsenic	mg/kg	3.8	3		10	--
Barium	mg/kg	62	70		4,700	--
Chromium	mg/kg	28	24		NE	--
Lead	mg/kg	13	10		400	--
Selenium	mg/kg	2.3			340	--
Total Mercury by EPA Method 7471	mg/kg	ND	ND	ND	20	--

Notes:
1) Only constituents which were detected are included in this table.
2) mg/kg = miligrams per kilogram; mg/L = miligrams per liter
GA PMC = GA Pollutant Mobility Criteria
4) Total metals concentrations are comparable to the RES DEC only; SPLP concentrations are comparable to the GA PMC.
5) NE = Not established; ND = the analyte was not detected above the method detection limit (MDL).
6) Numbers in **BOLD** indicate the detected concentration exceeds the RES DEC. Numbers that are shaded indicate the concentration exceeds the GA PMC. Numbers which are bold and shaded indicate the detected concentration exceeds both the RES DEC and the GA PMC.

Table 3
Soil Sample Analytical Results, EA-1
Bartlett Arboretum Remediation
Stamford, CT

Sample Designation: Sample Interval (ft bgs): Sample Date: **Analytes**	**Units**	**EA-1 North** **0-2** **10/7/2013**	**EA-1 North2** **0-2** **10/29/2013**	**EA-1 South** **0-2** **10/7/2013**	**EA-1 West** **0-2** **10/7/2013**	**EA-1 East** **0-2** **10/7/2013**	**EA-1 Bottom** **0-2** **10/7/2013**	**FB100713** **--** **10/7/2013** **Field Blank**	**FB100813** **--** **10/8/2013** **Field Blank**	**CT RSR Criteria**	
										RES DEC	**GA PMC**
Chlorinated Pesticides by EPA Method 8081B				ND				ND	ND		
4,4-DDD	ug/kg	93				67	49			2,600	24,000
4,4-DDE	ug/kg	890	180		370	710	460			1,800	NE
4,4-DDT	ug/kg	**3,000**	320		680	1,500	810			1,800	NE

Notes:

1) Only constituents which were detected are included in this table.
2) mg/kg = miligrams per kilogram; mg/L = miligrams per liter
GA PMC = GA Pollutant Mobility Criteria
4) Total metals concentrations are comparable to the RES DEC only; SPLP concentrations are comparable to the GA PMC.
5) NE = Not established; ND = the analyte was not detected above the method detection limit (MDL).
6) Numbers in **BOLD** indicate the detected concentration exceeds the RES DEC. Numbers that are shaded indicate the detected concentration exceeds the GA PMC. Numbers which are bold and shaded indicate the detected concentration exceeds both the RES DEC and the GA PMC.

Table 4
Soil Sample Analytical Results, EA-2
Bartlett Arboretum Remediation
Stamford, CT

Sample Designation: Sample Interval (ft bgs): Sample Date: Analytes	Units	EA-2 North 0-2 10/7/2013	EA-2 South 0-2 10/7/2013	EA-2 South2 0-2 10/29/2013	EA-2 West 0-2 10/7/2013	EA-2 West2 0-2 10/29/2013	EA-2 West3 0-2 11/14/2013	EA-2 West4 0-2 12/6/2013	EA-2 East 0-2 10/7/2013	EA-2 East2 0-2 10/29/2013	EA-2 Bottom 0-2 10/7/2013	FB100713 -- 10/7/2013 Field Blank	FB100813 -- 10/8/2013 Field Blank	CT RSR Criteria RES DEC	CT RSR Criteria GA PMC
Chlorinated Pesticides by EPA Method 8081B												ND	ND		
4,4-DDD	ug/kg		160				68		86		57			2,600	24,000
4,4-DDE	ug/kg	140	690	150	**3,400**	1,400	980	410	840	350	290			1,800	NE
4,4-DDT	ug/kg	430	**3,300**	400	**28,000**	**9,000**	**3,200**	1,700	**2,900**	920	1,000			1,800	NE

Notes:
1) Only constituents which were detected are included in this table.
2) mg/kg = miligrams per kilogram; mg/L = miligrams per liter
GA PMC = GA Pollutant Mobility Criteria
4) Total metals concentrations are comparable to the RES DEC only; SPLP concentrations are comparable to the GA PMC.
5) NE = Not established; ND = the analyte was not detected above the method detection limit (MDL).
6) Numbers in **BOLD** indicate the detected concentration exceeds the RES DEC. Numbers that are shaded indicate the detected concentration exceeds the GA PMC. Numbers which are bold and shaded indicate the detected concentration exceeds both the RES DEC and the GA PMC.

Table 5
Soil Sample Analytical Results, EA-3
Bartlett Arboretum Remediation
Stamford, CT

Sample Designation: Sample Interval (ft bgs): Sample Date: **Analytes**	**Units**	**EA-3 North** **0-2** **10/8/2013**	**EA-3 South** **0-2** **10/8/2013**	**EA-3 South2** **0-2** **10/29/2013**	**EA-3 West** **0-2** **10/8/2013**	**EA-3 East** **0-2** **10/8/2013**	**EA-3 East2** **0-2** **10/29/2013**	**EA-8 Bottom** **0-2** **10/8/2013** **Duplicate of EA-3 Bottom**	**FB100713** **--** **10/7/2013** **Field Blank**	**FB100813** **--** **10/8/2013** **Field Blank**	**CT RSR Criteria**	
											RES DEC	**GA PMC**
Chlorinated Pesticides by EPA Method 8081B				NA			NA		ND	ND		
4,4-DDD	ug/kg										2,600	24,000
4,4-DDE	ug/kg	43	610		27	270		160			1,800	NE
4,4-DDT	ug/kg	37	590		40	250		200			1,800	NE
Total Metals (Arsenic) by EPA Method 6010									NA	ND		
Arsenic	mg/kg	7.2	**11**	4.8	6.4	**11**	2.2	8.9			10	--

Notes:
1) Only constituents which were detected are included in this table.
2) mg/kg = miligrams per kilogram; mg/L = miligrams per liter
GA PMC = GA Pollutant Mobility Criteria
4) Total metals concentrations are comparable to the RES DEC only; SPLP concentrations are comparable to the GA PMC.
5) NE = Not established; ND = the analyte was not detected above the method detection limit (MDL).
6) Numbers in **BOLD** indicate the detected concentration exceeds the RES DEC. Numbers that are shaded indicate the detected concentration exceeds the GA PMC. Numbers which are bold and shaded indicate the detected concentration exceeds both the RES DEC and the GA PMC.

Table 6
Soil Sample Analytical Results, EA-4
Bartlett Arboretum Remediation
Stamford, CT

Sample Designation: Sample Interval (ft bgs): Sample Date: Analytes	Units	EA-4 North 0-2 10/8/2013	EA-4 South 0-2 10/8/2013	EA-4 West 0-2 10/8/2013	EA-4 East 0-2 10/8/2013	EA-4 Bottom 0-2 10/8/2013	FB100713 -- 10/7/2013 Field Blank	CT RSR Criteria	
								RES DEC	GA PMC
Total Metals (Arsenic) by EPA Method 6010							NA		
Arsenic	mg/kg	4.5	4.7	5.3	6.1	3.8		10	--

Notes:
1) Only constituents which were detected are included in this table.
2) mg/kg = miligrams per kilogram; mg/L = miligrams per liter
GA PMC = GA Pollutant Mobility Criteria
4) Total metals concentrations are comparable to the RES DEC only; SPLP concentrations are comparable to the GA PMC.
5) NE = Not established; ND = the analyte was not detected above the method detection limit (MDL).
6) Numbers in **BOLD** indicate the detected concentration exceeds the RES DEC. Numbers that are shaded indicate the detected concentration exceeds the GA PMC. Numbers which a
shaded indicate the detected concentration exceeds both the RES DEC and the GA PMC.

Table 7
Soil Sample Analytical Results, EA-5
Bartlett Arboretum Remediation
Stamford, CT

Sample Designation: Sample Interval (ft bgs): Sample Date: **Analytes**	**Units**	**EA-5 North** **0-2** **10/8/2013**	**EA-5 South** **0-2** **10/8/2013**	**EA-5 West** **0-2** **10/8/2013**	**EA-5 West2** **0-2** **10/29/2013**	**EA-5 East** **0-2** **10/8/2013**	**EA-5 East2** **0-2** **10/29/2013**	**EA-5 East3** **0-2** **11/14/2013**	**EA-5 Bottom** **0-2** **10/8/2013**	**EA-10 Bottom** **0-2** **10/8/2013** **Duplicate of EA-5 Bottom**	**FB100713** **--** **10/7/2013** **Field Blank**	**FB100813** **--** **10/8/2013** **Field Blank**	**CT RSR Criteria**	
													RES DEC	**GA PMC**
Total Metals (Arsenic and Lead) by EPA Method 6010					NA						NA	ND		
Arsenic	mg/kg	6.3	5.7	3.3		**24**	**12**	**14**	4.3	4.6			10	--
Lead	mg/kg	17	11	9.9		66			14	14			400	--
SPLP Metals (Arsenic and Lead) by EPA Method 6020A		ND	ND		ND		NA	NA	NA	ND	NA	NA		
Arsenic	mg/L												--	0.01
Lead	mg/L			0.028		0.015							--	0.015

Notes:
1) Only constituents which were detected are included in this table.
2) mg/kg = miligrams per kilogram; mg/L = miligrams per liter
GA PMC = GA Pollutant Mobility Criteria
4) Total metals concentrations are comparable to the RES DEC only; SPLP concentrations are comparable to the GA PMC.
5) NE = Not established; ND = the analyte was not detected above the method detection limit (MDL).
6) Numbers in **BOLD** indicate the detected concentration exceeds the RES DEC. Numbers that are shaded indicate the detected concentration exceeds the GA PMC. Numbers which are bold and shaded indicate the detected concentration exceeds both the RES DEC and the GA PMC.

Table 8
Soil Sample Analytical Results, EA-6
Bartlett Arboretum Remediation
Stamford, CT

Sample Designation: Sample Interval (ft bgs): Sample Date: **Analytes**	**Units**	**EA-6 North** **0-2** **10/8/2013**	**EA-6 South** **0-2** **10/8/2013**	**EA-6 South2** **0-2** **10/29/2013**	**EA-6 South3** **0-2** **11/14/2013**	**EA-6 West** **0-2** **10/8/2013**	**EA-6 East** **0-2** **10/8/2013**	**EA-6 Bottom** **0-2** **10/8/2013**	**FB100813** **--** **10/8/2013** **Field Blank**	**CT RSR Criteria**	
										RES DEC	**GA PMC**
Total Metals (Arsenic and Lead) by EPA Method 6010									ND		
Arsenic	mg/kg	6.8	**16**	**32**	2.7	6.6	10	3.7		10	--
Lead	mg/kg									400	--
SPLP Metals (Arsenic and Lead) by EPA Method 6020A		ND	ND	NA	NA	ND	ND	ND	NA		
Arsenic	mg/L									--	0.01
Lead	mg/L									--	0.015

Notes:

1) Only constituents which were detected are included in this table.
2) mg/kg = miligrams per kilogram; mg/L = miligrams per liter
GA PMC = GA Pollutant Mobility Criteria
4) Total metals concentrations are comparable to the RES DEC only; SPLP concentrations are comparable to the GA PMC.
5) NE = Not established; ND = the analyte was not detected above the method detection limit (MDL).
6) Numbers in **BOLD** indicate the detected concentration exceeds the RES DEC. Numbers that are shaded indicate the detected concentration exceeds the GA PMC. Numbers which are bold and shaded indicate the detected concentration exceeds both the RES DEC and the GA PMC.

APPENDIX A

REMEDIAL ACTIVITY PHOTOGRAPHS

PHOTO 1 Temporary bridge construction over stream to access EA-1 and EA-2.

PHOTO 2 Temporary bridge construction over stream to access EA-1 and EA-2.

PHOTO 3 Steel plates over stream to access EA-1 and EA-2.

PHOTO 4 Excavation of EA-1.

PHOTO 5 Initial limits of EA-1 10-7-2013.

PHOTO 6 Over-excavation of EA-1 northern sidewall 10-29-2013.

PHOTO 7 Completed limits of EA-1 10-29-2013.

PHOTO 8 Backfilling EA-1 11-14-13.

PHOTO 9 EA-1 Backfilling completed 12-20-13.

PHOTO 10 Excavation of EA-2.

PHOTO 11 Initial limits of EA-2 10-7-2013.

PHOTO 12 Over-excavation of EA-2 western sidewall 10-29-13.

PHOTO 13 Over-excavation of EA-2 eastern sidewall 10-29-13.

PHOTO 14 Southern sidewall at EA-2 over-excavated 10-29-13

PHOTO 15 Completed limits of EA-2 10-29-13.

PHOTO 16 Additional over-excavation of the western sidewall of EA-2 11-14-13.

PHOTO 17 Additional over-excavation of the western sidewall of EA-2 12-6-13.

PHOTO 18 Final limits of EA-2 12-6-13.

PHOTO 19 EA-2 Backfilled 12-19-13.

PHOTO 20 Excavation of EA-3 10-7-2013.

PHOTO 21 Over-excavation of the southern sidewall of EA-3 10-29-13.

PHOTO 22 Over-excavation of the eastern sidewall of EA-3 10-29-13.

PHOTO 23
Final completed limits of EA-3 10-29-13.

PHOTO 24 EA-3 Backfilled 11-14-13.

PHOTO 25 Excavation of EA-4 10-8-13.

PHOTO 26 Excavation of EA-5 10-8-13.

PHOTO 27 Initial limits of EA-5 completed and secured 10-8-13.

PHOTO 28 Over-excavation of EA-5 eastern sidewall 10-29-13.

PHOTO 29 Over-excavation of western sidewall of EA-5 10-29-13.

PHOTO 30 Additional over-excavation of the eastern sidewall of EA-5 11-14-13.

PHOTO 31 Final limits of EA-5 11-14-13.

PHOTO 32 Backfilling EA-5 12-6-13.

PHOTO 33 EA-5 backfilled 12-6-13.

PHOTO 34 Excavation of EA-6 10-8-13.

PHOTO 35 Excavation of EA-6 10-8-13.

PHOTO 36 Initial limits of EA-6 10-8-13.

PHOTO 37 Over-excavation of EA-6 southern sidewall 10-29-13.

PHOTO 38 Additional over-excavation of southern sidewall of EA-6 11-14-13.

PHOTO 39 Final limits of EA-6 11-14-13.

PHOTO 40 EA-6 Backfilled 12-20-13.

PHOTO 41 Roll-offs staged for offsite disposal.

PHOTO 42 Wooden footbridge over stream replaced.

APPENDIX B

LABORATORY ANALYTICAL REPORTS

COMPLETE ENVIRONMENTAL TESTING, INC.

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Mr. Chris Lindahl
TRC Environmental Consultants
21 Griffin Rd., North
Windsor, CT 06095

Analytical Report

CET # 13100215

Report Date: October 21, 2013
Client Project: Burtlett Arboretum, Stamford

Connecticut Laboratory Certification PH 0116
Massachusetts Laboratory Certification M-CT903
Rhode Island Certification 199

New York Certification 11982
Florida Laboratory Certification E871064

CET#: 13100215
Project: Burtlett Arboretum, Stamford

SAMPLE SUMMARY:

This report contains analytical data associated with the following samples only:

CETID	Client Sample ID	Matrix	Collection Date	Collection Time	Receipt Date
AF45479	EA-1 North	Soil	10/7/2013	13:25	10/08/2013
AF45480	EA-1 South	Soil	10/7/2013	13:27	10/08/2013
AF45481	EA-1 West	Soil	10/7/2013	13:30	10/08/2013
AF45482	EA-1 East	Soil	10/7/2013	13:33	10/08/2013
AF45483	EA-1 Bottom	Soil	10/7/2013	13:35	10/08/2013
AF45484	EA-2 North	Soil	10/7/2013	13:45	10/08/2013
AF45485	EA-2 South	Soil	10/7/2013	13:47	10/08/2013
AF45486	EA-2 West	Soil	10/7/2013	13:50	10/08/2013
AF45487	EA-2 East	Soil	10/7/2013	13:52	10/08/2013
AF45488	EA-2 Bottom	Soil	10/7/2013	13:55	10/08/2013
AF45489	FB100713	Water	10/7/2013	14:30	10/08/2013
AF45490	FB100813	Water	10/8/2013	9:45	10/08/2013
AF45491	EA-3 North	Soil	10/8/2013	10:55	10/08/2013
AF45492	EA-3 South	Soil	10/8/2013	10:57	10/08/2013
AF45493	EA-3 West	Soil	10/8/2013	11:00	10/08/2013
AF45494	EA-3 East	Soil	10/8/2013	11:02	10/08/2013
AF45495	EA-3 Bottom	Soil	10/8/2013	11:05	10/08/2013
AF45496	EA-8 Bottom	Soil	10/8/2013	11:07	10/08/2013
AF45497	EA-4 North	Soil	10/8/2013	11:55	10/08/2013
AF45498	EA-4 South	Soil	10/8/2013	11:57	10/08/2013
AF45499	EA-4 West	Soil	10/8/2013	12:00	10/08/2013
AF45500	EA-4 East	Soil	10/8/2013	12:02	10/08/2013
AF45501	EA-4 Bottom	Soil	10/8/2013	12:05	10/08/2013
AF45502	Lawn-1	Soil	10/8/2013	12:10	10/08/2013
AF45503	Lawn-2	Soil	10/8/2013	12:15	10/08/2013
AF45504	EA-5 North	Soil	10/8/2013	13:15	10/08/2013
AF45505	EA-5 South	Soil	10/8/2013	13:17	10/08/2013
AF45506	EA-5 West	Soil	10/8/2013	13:20	10/08/2013
AF45507	EA-5 East	Soil	10/8/2013	13:22	10/08/2013
AF45508	EA-5 Bottom	Soil	10/8/2013	13:25	10/08/2013
AF45509	EA-10 Bottom	Soil	10/8/2013	13:27	10/08/2013
AF45510	EA-6 North	Soil	10/8/2013	14:40	10/08/2013
AF45511	EA-6 South	Soil	10/8/2013	14:42	10/08/2013
AF45512	EA-6 West	Soil	10/8/2013	14:45	10/08/2013
AF45513	EA-6 East	Soil	10/8/2013	14:47	10/08/2013
AF45514	EA-6 Bottom	Soil	10/8/2013	14:50	10/08/2013

Sample temperature upon receipt was 15.3 degrees C

PREP ANALYSIS:

Acid Digestion of Waters [EPA 3005A]

Client ID	FB100813
CET ID	AF45490
Date Analyzed	10/11/2013

CET#: 13100215
Project: Burtlett Arboretum, Stamford

Acid Digestion [EPA 3050B]

Client ID	EA-3 North	EA-3 South	EA-3 West	EA-3 East	EA-3 Bottom
CET ID	AF45491	AF45492	AF45493	AF45494	AF45495
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013

Acid Digestion [EPA 3050B]

Client ID	EA-8 Bottom	EA-4 North	EA-4 South	EA-4 West	EA-4 East
CET ID	AF45496	AF45497	AF45498	AF45499	AF45500
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013

Acid Digestion [EPA 3050B]

Client ID	EA-4 Bottom	Lawn-1	Lawn-2	EA-5 North	EA-5 South
CET ID	AF45501	AF45502	AF45503	AF45504	AF45505
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013

Acid Digestion [EPA 3050B]

Client ID	EA-5 West	EA-5 East	EA-5 Bottom	EA-10 Bottom	EA-6 North
CET ID	AF45506	AF45507	AF45508	AF45509	AF45510
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013

Acid Digestion [EPA 3050B]

Client ID	EA-6 South	EA-6 West	EA-6 East	EA-6 Bottom
CET ID	AF45511	AF45512	AF45513	AF45514
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013

Liquid-Liquid Ext Pest. [EPA 3510C]

Client ID	FB100713	FB100813
CET ID	AF45489	AF45490
Date Analyzed	10/14/2013	10/14/2013

Accelerated Solvent Ext.- Pest [EPA 3545A]

Client ID	EA-1 North	EA-1 South	EA-1 West	EA-1 East	EA-1 Bottom
CET ID	AF45479	AF45480	AF45481	AF45482	AF45483
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013

CET#: 13100215
Project: Burtlett Arboretum, Stamford

Accelerated Solvent Ext.- Pest [EPA 3545A]

Client ID	EA-2 North	EA-2 South	EA-2 West	EA-2 East	EA-2 Bottom
CET ID	AF45484	AF45485	AF45486	AF45487	AF45488
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013

Accelerated Solvent Ext.- Pest [EPA 3545A]

Client ID	EA-3 North	EA-3 South	EA-3 West	EA-3 East	EA-3 Bottom
CET ID	AF45491	AF45492	AF45493	AF45494	AF45495
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013

Accelerated Solvent Ext.- Pest [EPA 3545A]

Client ID	EA-8 Bottom	Lawn-1	Lawn-2
CET ID	AF45496	AF45502	AF45503
Date Analyzed	10/10/2013	10/10/2013	10/10/2013

SPLP, Metals [EPA 1312]

Client ID	EA-5 North	EA-5 South	EA-5 West	EA-5 East	EA-5 Bottom
CET ID	AF45504	AF45505	AF45506	AF45507	AF45508
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013

SPLP, Metals [EPA 1312]

Client ID	EA-10 Bottom	EA-6 North	EA-6 South	EA-6 West	EA-6 East
CET ID	AF45509	AF45510	AF45511	AF45512	AF45513
Date Analyzed	10/14/2013	10/14/2013	10/14/2013	10/14/2013	10/14/2013

SPLP, Metals [EPA 1312]

Client ID	EA-6 Bottom
CET ID	AF45514
Date Analyzed	10/14/2013

SPLP Extraction , Pesticides [EPA 1312]

Client ID	EA-1 North	EA-1 South	EA-1 West	EA-1 East	EA-1 Bottom
CET ID	AF45479	AF45480	AF45481	AF45482	AF45483
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013

CET#: 13100215
Project: Burtlett Arboretum, Stamford

SPLP Extraction , Pesticides [EPA 1312]

Client ID	EA-2 North	EA-2 South	EA-2 West	EA-2 East	EA-2 Bottom
CET ID	AF45484	AF45485	AF45486	AF45487	AF45488
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/12/2013

SPLP Extraction , Pesticides [EPA 1312]

Client ID	EA-3 North	EA-3 South	EA-3 West	EA-3 East	EA-3 Bottom
CET ID	AF45491	AF45492	AF45493	AF45494	AF45495
Date Analyzed	10/12/2013	10/12/2013	10/12/2013	10/12/2013	10/12/2013

SPLP Extraction , Pesticides [EPA 1312]

Client ID	EA-8 Bottom	Lawn-1	Lawn-2
CET ID	AF45496	AF45502	AF45503
Date Analyzed	10/12/2013	10/12/2013	10/12/2013

ANALYSIS:

Total Mercury [EPA 6020A] Units: mg/kg (Dry Wt)

Client ID	Lawn-1	Lawn-2
CET ID	AF45502	AF45503
Date Analyzed	10/15/2013	10/15/2013
Total Mercury	ND < 0.20	ND < 0.20

Total Solids [EPA 160.3 mo] Units: percent

Client ID	EA-1 North	EA-1 South	EA-1 West	EA-1 East	EA-1 Bottom
CET ID	AF45479	AF45480	AF45481	AF45482	AF45483
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013
Total Solids	82	83	82	83	81

Total Solids [EPA 160.3 mo] Units: percent

Client ID	EA-2 North	EA-2 South	EA-2 West	EA-2 East	EA-2 Bottom
CET ID	AF45484	AF45485	AF45486	AF45487	AF45488
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013
Total Solids	86	87	86	87	89

Total Solids [EPA 160.3 mo] Units: percent

Client ID	EA-3 North	EA-3 South	EA-3 West	EA-3 East	EA-3 Bottom
CET ID	AF45491	AF45492	AF45493	AF45494	AF45495
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013
Total Solids	72	71	75	72	74

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Total Solids [EPA 160.3 mo] Units: percent

Client ID	EA-8 Bottom	EA-4 North	EA-4 South	EA-4 West	EA-4 East
CET ID	AF45496	AF45497	AF45498	AF45499	AF45500
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013
Total Solids	73	88	85	86	85

Total Solids [EPA 160.3 mo] Units: percent

Client ID	EA-4 Bottom	Lawn-1	Lawn-2	EA-5 North	EA-5 South
CET ID	AF45501	AF45502	AF45503	AF45504	AF45505
Date Analyzed	10/10/2013	10/11/2013	10/10/2013	10/10/2013	10/10/2013
Total Solids	80	87	87	85	87

Total Solids [EPA 160.3 mo] Units: percent

Client ID	EA-5 West	EA-5 East	EA-5 Bottom	EA-10 Bottom	EA-6 North
CET ID	AF45506	AF45507	AF45508	AF45509	AF45510
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013
Total Solids	86	82	86	86	79

Total Solids [EPA 160.3 mo] Units: percent

Client ID	EA-6 South	EA-6 West	EA-6 East	EA-6 Bottom
CET ID	AF45511	AF45512	AF45513	AF45514
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013
Total Solids	82	84	86	87

Total Metals [EPA 200.7] Units: mg/l

Client ID	FB100813
CET ID	AF45490
Date Analyzed	10/11/2013
Dilution	1.0
Lead	ND < 0.013
Arsenic	ND < 0.004

Total Metals [EPA 6010C] Units: mg/kg (Dry Wt)

Client ID	EA-3 North	EA-3 South	EA-3 West	EA-3 East	EA-3 Bottom
CET ID	AF45491	AF45492	AF45493	AF45494	AF45495
Date Analyzed	10/11/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013
Dilution	1.0	1.0	1.0	1.0	1.0
Arsenic	7.2	11	6.4	11	7.6

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Total Metals [EPA 6010C] Units: mg/kg (Dry Wt)

Client ID	EA-8 Bottom	EA-4 North	EA-4 South	EA-4 West	EA-4 East
CET ID	AF45496	AF45497	AF45498	AF45499	AF45500
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013
Dilution	1.0	1.0	1.0	1.0	1.0
Arsenic	8.9	4.5	4.7	5.3	6.1

Total Metals [EPA 6010C] Units: mg/kg (Dry Wt)

Client ID	EA-4 Bottom	Lawn-1	Lawn-2	EA-5 North	EA-5 South
CET ID	AF45501	AF45502	AF45503	AF45504	AF45505
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013
Dilution	1.0	1.0	1.0	1.0	1.0
Lead		13	10	17	11
Selenium		2.3			
Cadmium		ND < 1.0			
Chromium		28			
Arsenic	3.8	3.8	3.0	6.3	3.7
Barium		62			
Silver		ND < 2.5			

Total Metals [EPA 6010C] Units: mg/kg (Dry Wt)

Client ID	EA-5 West	EA-5 East	EA-5 Bottom	EA-10 Bottom	EA-6 North
CET ID	AF45506	AF45507	AF45508	AF45509	AF45510
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/10/2013	10/10/2013
Dilution	1.0	1.0	1.0	1.0	1.0
Lead	9.9	66	14	14	
Arsenic	3.3	24	4.3	4.6	6.8

Total Metals [EPA 6010C] Units: mg/kg (Dry Wt)

Client ID	EA-6 South	EA-6 West	EA-6 East	EA-6 Bottom
CET ID	AF45511	AF45512	AF45513	AF45514
Date Analyzed	10/10/2013	10/10/2013	10/10/2013	10/11/2013
Dilution	1.0	1.0	1.0	1.0
Arsenic	16	6.6	10	3.7

Total Metals Dup Result [EPA 6010C] Units: mg/kg (Dry Wt)

Client ID	EA-3 Bottom
CET ID	AF45495
Date Analyzed	10/10/2013
Dilution	1.0
Arsenic	7.8

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SPLP Metals [EPA 6020A] Units: mg/l

Client ID	EA-5 North	EA-5 South	EA-5 West	EA-5 East	EA-5 Bottom
CET ID	AF45504	AF45505	AF45506	AF45507	AF45508
Date Analyzed	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013
Dilution	1.0	1.0	1.0	1.0	1.0
Lead	ND < 0.013	ND < 0.013	0.028	0.015	ND < 0.013
Arsenic	ND < 0.009	ND < 0.009	ND < 0.009	ND < 0.009	ND < 0.009

SPLP Metals [EPA 6020A] Units: mg/l

Client ID	EA-10 Bottom	EA-6 North	EA-6 South	EA-6 West	EA-6 East
CET ID	AF45509	AF45510	AF45511	AF45512	AF45513
Date Analyzed	10/15/2013	10/15/2013	10/15/2013	10/15/2013	10/15/2013
Dilution	1.0	1.0	1.0	1.0	1.0
Lead	ND < 0.013				
Arsenic	ND < 0.009	ND < 0.009	ND < 0.009	ND < 0.009	ND < 0.009

SPLP Metals [EPA 6020A] Units: mg/l

Client ID	EA-6 Bottom
CET ID	AF45514
Date Analyzed	10/15/2013
Dilution	1.0
Arsenic	ND < 0.009

SPLP Metals by ICP/MS Dup [EPA 6020A] Units: mg/l

Client ID	EA-10 Bottom
CET ID	AF45509
Date Analyzed	10/15/2013
Dilution	1.0
Lead	ND < 0.013
Arsenic	ND < 0.009

EPA 8081B Chlorinated Pesticides [EPA 8081B] Units: ug/l

Client ID	FB100713	FB100813
CET ID	AF45489	AF45490
Date Analyzed	10/15/2013	10/15/2013
Dilution	1	1
4,4-DDD	ND < 0.05	ND < 0.05
4,4-DDE	ND < 0.05	ND < 0.05
4,4-DDT	ND < 0.05	ND < 0.05
4,4-Methoxychlor	ND < 0.05	ND < 0.05
Alachlor	ND < 0.20	ND < 0.20
Aldrin	ND < 0.05	ND < 0.05
Alpha-BHC	ND < 0.10	ND < 0.10
Beta-BHC	ND < 0.05	ND < 0.05

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EPA 8081B Chlorinated Pesticides [EPA 8081B] Units: ug/l

Client ID	FB100713	FB100813
Chlordane	ND < 0.20	ND < 0.20
Delta-BHC	ND < 0.05	ND < 0.05
Dieldrin	ND < 0.002	ND < 0.002
Endosulfan I	ND < 0.05	ND < 0.05
Endosulfan II	ND < 0.05	ND < 0.05
Endosulfan Sulfate	ND < 0.05	ND < 0.05
Endrin	ND < 0.05	ND < 0.05
Endrin Aldehyde	ND < 0.05	ND < 0.05
Endrin Ketone	ND < 0.05	ND < 0.05
Gamma-BHC	ND < 0.10	ND < 0.10
Heptachlor	ND < 0.05	ND < 0.05
Heptachlor Epoxide	ND < 0.05	ND < 0.05
Toxaphene	ND < 0.80	ND < 0.80
TCMX (Surr 1)	96	86
DCB (Surr 2)	78	86

EPA 8081B Chlorinated Pesticides [EPA 8081B] Units: ug/kg (Dry Wt)

Client ID	EA-1 North	EA-1 South	EA-1 West	EA-1 East	EA-1 Bottom
CET ID	AF45479	AF45480	AF45481	AF45482	AF45483
Date Analyzed	10/11/2013	10/12/2013	10/11/2013	10/11/2013	10/11/2013
Dilution	1	1	1	1	1
4,4-DDD	93	ND < 37	ND < 37	67	49
4,4-DDE	1500E	ND < 25	440E	910E	530E
4,4-DDT	4300E	ND < 25	880E	2600E	1000E
4,4-Methoxychlor	ND < 61	ND < 61	ND < 61	ND < 61	ND < 62
Alachlor	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Aldrin	ND < 31	ND < 31	ND < 31	ND < 31	ND < 31
Alpha-BHC	ND < 61	ND < 61	ND < 61	ND < 61	ND < 62
Beta-BHC	ND < 61	ND < 61	ND < 61	ND < 61	ND < 62
Chlordane	ND < 49	ND < 49	ND < 49	ND < 49	ND < 50
Delta-BHC	ND < 61	ND < 61	ND < 61	ND < 61	ND < 62
Dieldrin	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Endosulfan I	ND < 61	ND < 61	ND < 61	ND < 61	ND < 62
Endosulfan II	ND < 61	ND < 61	ND < 61	ND < 61	ND < 62
Endosulfan Sulfate	ND < 61	ND < 61	ND < 61	ND < 61	ND < 62
Endrin	ND < 61	ND < 61	ND < 61	ND < 61	ND < 62
Endrin Aldehyde	ND < 61	ND < 61	ND < 61	ND < 61	ND < 62
Endrin Ketone	ND < 61	ND < 61	ND < 61	ND < 61	ND < 62
Gamma-BHC	ND < 25	ND < 25	ND < 25	ND < 25	ND < 25
Heptachlor	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10
Heptachlor Epoxide	ND < 15	ND < 15	ND < 15	ND < 15	ND < 15
Toxaphene	ND < 250	ND < 250	ND < 250	ND < 250	ND < 250
TCMX (Surr 1)	89	89	89	89	90
DCB (Surr 2)	89	101	89	97	95

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EPA 8081B Chlorinated Pesticides [EPA 8081B] Units: ug/kg (Dry Wt)

Client ID	EA-2 North	EA-2 South	EA-2 West	EA-2 East	EA-2 Bottom
CET ID	AF45484	AF45485	AF45486	AF45487	AF45488
Date Analyzed	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013
Dilution	1	1	1	1	1
4,4-DDD	ND < 35	160	1100E	86	57
4,4-DDE	140E	980E	3100E	1100E	310
4,4-DDT	460E	5000E	7300E	4700E	1600
4,4-Methoxychlor	ND < 59	ND < 58	ND < 59	ND < 58	ND < 57
Alachlor	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Aldrin	ND < 30	ND < 29	ND < 30	ND < 29	ND < 29
Alpha-BHC	ND < 59	ND < 58	ND < 59	ND < 58	ND < 57
Beta-BHC	ND < 59	ND < 58	ND < 59	ND < 58	ND < 57
Chlordane	ND < 47	ND < 46	ND < 47	ND < 46	ND < 45
Delta-BHC	ND < 59	ND < 58	ND < 59	ND < 58	ND < 57
Dieldrin	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Endosulfan I	ND < 59	ND < 58	ND < 59	ND < 58	ND < 57
Endosulfan II	ND < 59	ND < 58	ND < 59	ND < 58	ND < 57
Endosulfan Sulfate	ND < 59	ND < 58	ND < 59	ND < 58	ND < 57
Endrin	ND < 59	ND < 58	ND < 59	ND < 58	ND < 57
Endrin Aldehyde	ND < 59	ND < 58	ND < 59	ND < 58	ND < 57
Endrin Ketone	ND < 59	ND < 58	ND < 59	ND < 58	ND < 57
Gamma-BHC	ND < 24	ND < 23	ND < 24	ND < 23	ND < 23
Heptachlor	ND < 10	ND < 10	ND < 10	ND < 10	ND < 9.0
Heptachlor Epoxide	ND < 14	ND < 14	ND < 14	ND < 14	ND < 14
Toxaphene	ND < 240	ND < 230	ND < 240	ND < 230	ND < 230
TCMX (Surr 1)	88	85	91	93	98
DCB (Surr 2)	95	105	91	101	115

EPA 8081B Chlorinated Pesticides [EPA 8081B] Units: ug/kg (Dry Wt)

Client ID	EA-3 North	EA-3 South	EA-3 West	EA-3 East	EA-3 Bottom
CET ID	AF45491	AF45492	AF45493	AF45494	AF45495
Date Analyzed	10/12/2013	10/11/2013	10/12/2013	10/12/2013	10/12/2013
Dilution	1	1	1	1	1
4,4-DDD	ND < 42	ND < 43	ND < 40	ND < 42	ND < 41
4,4-DDE	43	720E	27	270	140
4,4-DDT	37	770E	40	250	150
4,4-Methoxychlor	ND < 70	ND < 71	ND < 67	ND < 70	ND < 68
Alachlor	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Aldrin	ND < 35	ND < 36	ND < 34	ND < 35	ND < 34
Alpha-BHC	ND < 70	ND < 71	ND < 67	ND < 70	ND < 68
Beta-BHC	ND < 70	ND < 71	ND < 67	ND < 70	ND < 68
Chlordane	ND < 56	ND < 57	ND < 54	ND < 56	ND < 55
Delta-BHC	ND < 70	ND < 71	ND < 67	ND < 70	ND < 68
Dieldrin	ND < 6.0	ND < 6.0	ND < 6.0	ND < 6.0	ND < 6.0
Endosulfan I	ND < 70	ND < 71	ND < 67	ND < 70	ND < 68
Endosulfan II	ND < 70	ND < 71	ND < 67	ND < 70	ND < 68
Endosulfan Sulfate	ND < 70	ND < 71	ND < 67	ND < 70	ND < 68
Endrin	ND < 70	ND < 71	ND < 67	ND < 70	ND < 68
Endrin Aldehyde	ND < 70	ND < 71	ND < 67	ND < 70	ND < 68
Endrin Ketone	ND < 70	ND < 71	ND < 67	ND < 70	ND < 68
Gamma-BHC	ND < 28	ND < 29	ND < 27	ND < 28	ND < 28

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EPA 8081B Chlorinated Pesticides [EPA 8081B] Units: ug/kg (Dry Wt)

Client ID	EA-3 North	EA-3 South	EA-3 West	EA-3 East	EA-3 Bottom
Heptachlor	ND < 12	ND < 12	ND < 11	ND < 12	ND < 11
Heptachlor Epoxide	ND < 17	ND < 17	ND < 16	ND < 17	ND < 17
Toxaphene	ND < 280	ND < 290	ND < 270	ND < 280	ND < 280
TCMX (Surr 1)	95	93	92	92	90
DCB (Surr 2)	120	102	109	111	110

EPA 8081B Chlorinated Pesticides [EPA 8081B] Units: ug/kg (Dry Wt)

Client ID	EA-8 Bottom	Lawn-1	Lawn-2
CET ID	AF45496	AF45502	AF45503
Date Analyzed	10/12/2013	10/12/2013	10/12/2013
Dilution	1	1	1
4,4-DDD	ND < 42	ND < 35	ND < 35
4,4-DDE	160	ND < 23	ND < 23
4,4-DDT	200	ND < 23	ND < 23
4,4-Methoxychlor	ND < 69	ND < 58	ND < 58
Alachlor	ND < 200	ND < 200	ND < 200
Aldrin	ND < 35	ND < 29	ND < 29
Alpha-BHC	ND < 69	ND < 58	ND < 58
Beta-BHC	ND < 69	ND < 58	ND < 58
Chlordane	ND < 55	ND < 46	ND < 46
Delta-BHC	ND < 69	ND < 58	ND < 58
Dieldrin	ND < 6.0	ND < 5.0	ND < 5.0
Endosulfan I	ND < 69	ND < 58	ND < 58
Endosulfan II	ND < 69	ND < 58	ND < 58
Endosulfan Sulfate	ND < 69	ND < 58	ND < 58
Endrin	ND < 69	ND < 58	ND < 58
Endrin Aldehyde	ND < 69	ND < 58	ND < 58
Endrin Ketone	ND < 69	ND < 58	ND < 58
Gamma-BHC	ND < 28	ND < 23	ND < 23
Heptachlor	ND < 11	ND < 10	ND < 10
Heptachlor Epoxide	ND < 17	ND < 14	ND < 14
Toxaphene	ND < 280	ND < 230	ND < 230
TCMX (Surr 1)	92	96	89
DCB (Surr 2)	106	115	97

EPA 8081B Chlorinated Dup Result [EPA 8081B] Units: ug/kg (Dry Wt)

Client ID	Lawn-2
CET ID	AF45503
Date Analyzed	10/12/2013
Dilution	1
4,4-DDD	ND < 35
4,4-DDE	ND < 23
4,4-DDT	ND < 23
4,4-Methoxychlor	ND < 58
Alachlor	ND < 200
Aldrin	ND < 29
Alpha-BHC	ND < 58
Beta-BHC	ND < 58

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EPA 8081B Chlorinated Dup Result [EPA 8081B] Units: ug/kg (Dry Wt)

Client ID	Lawn-2
Chlordane	ND < 46
Delta-BHC	ND < 58
Dieldrin	ND < 5.0
Endosulfan I	ND < 58
Endosulfan II	ND < 58
Endosulfan Sulfate	ND < 58
Endrin	ND < 58
Endrin Aldehyde	ND < 58
Endrin Ketone	ND < 58
Gamma-BHC	ND < 23
Heptachlor	ND < 10
Heptachlor Epoxide	ND < 14
Toxaphene	ND < 230
TCMX (Surr 1)	102
DCB (Surr 2)	86

EPA 8081B Chlorinated Pest. Dilu [EPA 8081B] Units: ug/kg (Dry Wt)

Client ID	EA-1 North	EA-1 West	EA-1 East	EA-1 Bottom	EA-2 North
CET ID	AF45479	AF45481	AF45482	AF45483	AF45484
Date Analyzed	10/12/2013	10/12/2013	10/12/2013	10/12/2013	10/12/2013
Dilution	5	4	15	4	2
4,4-DDD	ND < 190	ND < 150	ND < 550	ND < 150	ND < 70
4,4-DDE	890	370	710	460	140
4,4-DDT	3000	680	1500	810	430
4,4-Methoxychlor	ND < 310	ND < 250	ND < 910	ND < 250	ND < 120
Aldrin	ND < 160	ND < 130	ND < 460	ND < 130	ND < 59
Alpha-BHC	ND < 310	ND < 250	ND < 910	ND < 250	ND < 120
Beta-BHC	ND < 310	ND < 250	ND < 910	ND < 250	ND < 120
Chlordane	ND < 250	ND < 200	ND < 730	ND < 200	ND < 94
Delta-BHC	ND < 310	ND < 250	ND < 910	ND < 250	ND < 120
Dieldrin	ND < 25	ND < 20	ND < 73	ND < 20	ND < 10
Endosulfan I	ND < 310	ND < 250	ND < 910	ND < 250	ND < 120
Endosulfan II	ND < 310	ND < 250	ND < 910	ND < 250	ND < 120
Endosulfan Sulfate	ND < 310	ND < 250	ND < 910	ND < 250	ND < 120
Endrin	ND < 310	ND < 250	ND < 910	ND < 250	ND < 120
Endrin Aldehyde	ND < 310	ND < 250	ND < 910	ND < 250	ND < 120
Endrin Ketone	ND < 310	ND < 250	ND < 910	ND < 250	ND < 120
Gamma-BHC	ND < 130	ND < 98	ND < 370	ND < 99	ND < 47
Heptachlor	ND < 49	ND < 40	ND < 150	ND < 40	ND < 19
Heptachlor Epoxide	ND < 74	ND < 59	ND < 220	ND < 60	ND < 28
Toxaphene	ND < 1220	ND < 980	ND < 3620	ND < 990	ND < 470
TCMX (Surr 1)	90	82	88	87	91
DCB (Surr 2)	97	96	92	122	109

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EPA 8081B Chlorinated Pest. Dilu [EPA 8081B] Units: ug/kg (Dry Wt)

Client ID	EA-2 South	EA-2 West	EA-2 East	EA-2 Bottom	EA-3 South
CET ID	AF45485	AF45486	AF45487	AF45488	AF45492
Date Analyzed	10/12/2013	10/12/2013	10/12/2013	10/12/2013	10/12/2013
Dilution	20	40	20	8	4
4,4-DDD	ND < 690	ND < 1400	ND < 690	ND < 270	ND < 170
4,4-DDE	690	3400	840	290	610
4,4-DDT	3300	28000	2900	1000	590
4,4-Methoxychlor	ND < 1150	ND < 2330	ND < 1150	ND < 450	ND < 290
Aldrin	ND < 580	ND < 1170	ND < 580	ND < 230	ND < 150
Alpha-BHC	ND < 1150	ND < 2330	ND < 1150	ND < 450	ND < 290
Beta-BHC	ND < 1150	ND < 2330	ND < 1150	ND < 450	ND < 290
Chlordane	ND < 920	ND < 1870	ND < 920	ND < 360	ND < 230
Delta-BHC	ND < 1150	ND < 2330	ND < 1150	ND < 450	ND < 290
Dieldrin	ND < 92	ND < 190	ND < 92	ND < 36	ND < 23
Endosulfan I	ND < 1150	ND < 2330	ND < 1150	ND < 450	ND < 290
Endosulfan II	ND < 1150	ND < 2330	ND < 1150	ND < 450	ND < 290
Endosulfan Sulfate	ND < 1150	ND < 2330	ND < 1150	ND < 450	ND < 290
Endrin	ND < 1150	ND < 2330	ND < 1150	ND < 450	ND < 290
Endrin Aldehyde	ND < 1150	ND < 2330	ND < 1150	ND < 450	ND < 290
Endrin Ketone	ND < 1150	ND < 2330	ND < 1150	ND < 450	ND < 290
Gamma-BHC	ND < 460	ND < 940	ND < 460	ND < 180	ND < 120
Heptachlor	ND < 190	ND < 380	ND < 190	ND < 72	ND < 46
Heptachlor Epoxide	ND < 280	ND < 560	ND < 280	ND < 110	ND < 68
Toxaphene	ND < 4600	ND < 9310	ND < 4600	ND < 1800	ND < 1130
TCMX (Surr 1)	89	110	90	100	85
DCB (Surr 2)	86	112	97	108	108

Questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

Report Comments:

1. ND is None Detected at the specified detection limit.
2. All analyses were performed in house unless a Reference Laboratory is listed.
3. Samples will be disposed of 30 days after the report date.
4. Sample Result Flags:
   E - The result is estimated, above the calibration range.
   H - The surrogate recovery is above the control limits.
   L - The surrogate recovery is below the control limits.
   B - The compound was detected in the laboratory blank.
   P - The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
   D - The RPD between the sample and the sample duplicate is high. Sample homogeneity may be a problem.
5. All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

CET #: 1300215

Volatile Soils Only:

Date and Time in Freezer
Client:
CET:

COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com
Bottle Request e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking W., C=Cassette, Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, 2-3 Days *, Std (5-7 Days)

Organics: 8260 CT List, 8260 Aromatics, 8260 Halogens, CT ETPH, 8270 CT List, 8270 PNAs, PCBs, Pesticides, Herbicides

Metals (check all that apply): 13 Priority Poll, 8 RCRA, TOTAL, TCLP, SPLP, Field Filtered, Lab To Filter

Additional Analysis: Pesticides

Sample ID	Date/Time	Matrix	Same Day *	Next Day *	2-3 Days *	Std (5-7 Days)	Pesticides	TOTAL # OF CONT.	NOTE #
EA-1 (North)	10/7/13 / 1325	S				↑	X	1	
EA-1 (South)	/ 1327	↓				↓	X	1	
EA-1 (West)	/ 1330						X	1	
EA-1 (East)	/ 1333						X	1	
EA-1 (Bottom)	/ 1335	↓				↓	X	1	
EA-2 (North)	/ 1345						X	1	
EA-2 (South)	/ 1347						X	1	
EA-2 (West)	/ 1350						X	1	
EA-2 (East)	/ 1352						X	1	
EA-2 (Bottom)	↓ / 1355	↓				↓	X	1	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
[signature]	10/8/13 16:09	[signature]

NOTES: Please ~~extract~~ do SPLP extraction on all samples being analyzed for pesticides and hold for future analysis.

Client / Reporting Information

Company Name: TRC
Address: 21 Griffin Road North
City: Windsor State: CT Zip: 06095
Report To: Chris Lindahl E-mail: CLindahl@trcsolutions.com
Phone #: 860-916-9683 Fax #: 860-298-6399

Project Information

Project Contact: Chris Lindahl PO #:
Project: Burtlett Arboretum Project #: Pending
Location: Stamford, CT Collector(s): C. Lindahl

QA/QC: ☐ Std ☐ Site Specific (MS/MSD) * ☒ RCP Pkg * ☒ DQAW *
Data Report: ☒ Email ☒ PDF ☒ Excel ☐ Other
RSR Reporting Limits (check one): ☒ GA ☐ GB ☐ SWP ☐ Other (specify)

Lab Use:
Evidence of Cooling: Temp Upon Receipt 15.3 °C or N
SHEET 1 OF 4

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day.

REV. 12/11

CET #: 13100215

Volatile Soils Only:

Date and Time in Freezer
Client:
CET:

CHAIN OF CUSTODY RECORD

COMPLETE ENVIRONMENTAL TESTING, INC.

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com
Bottle Request e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking W., C=Cassette, Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, 2-3 Days *, Std (5-7 Days)

Organics: 8260 CT List, 8260 Aromatics, 8260 Halogens, CT ETPH, 8270 CT List, 8270 PNAs, PCBs, Pesticides, Herbicides

Metals (check all that apply): 13 Priority Poll, 8 RCRA, TOTAL, TCLP, SPLP, Field Filtered, Lab To Filter

Additional Analysis: Pesticides, Arsenic (SPLP), Lead (SPLP), Total Arsenic, Total Lead

Sample ID	Date/Time	Matrix	Same Day *	Next Day *	2-3 Days *	Std (5-7 Days)	Pesticides	Total Arsenic	Total Lead	TOTAL # OF CONT.	NOTE #
FB100713	10/7/13 1430	W				X	X			1	
FB 100813	10/8/13 0945	W				X	X	X	X	2	
EA-3 (North)	/ 1055	S				X	X	X		1	
EA-3 (South)	/ 1057					X	X	X		1	
EA-3 (West)	/ 1100					X	X	X		1	
EA-3 (East)	/ 1102					X	X	X		1	
EA-3 (Bottom)	/ 1105					X	X	X		1	
EA-8 (Bottom)	/ 1107					X	X	X		1	
EA-4 (North)	/ 1155					X		X		1	
EA-4 (South)	/ 1157					X		X		1	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
[signature]	10/8/13 16:09	[signature]

NOTES: See Page 1

Client / Reporting Information

Company Name

Address: See Page 1

City State Zip

Report To: E-mail

Phone # Fax #

Project Information

Project Contact: PO #:

Project: See Page Project #:

Location: Collector(s):

QA/QC ☐ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *

Data Report ☐ Email ☐ PDF ☐ Excel ☐ Other

RSR Reporting Limits (check one) ☐ GA ☐ GB ☐ SWP ☐ Other (specify)

Lab Use:
Evidence of Cooling: 15.3 (Y) °C or N
Temp Upon Receipt

SHEET 2 OF 4

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day.

REV. 12/11

CET #: 13100215

Volatile Soils Only:

Date and Time in Freezer
Client:
CET:

CET

COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com
Bottle Request e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking W., C=Cassette, Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, 2-3 Days *, Std (5-7 Days)

Organics: 8260 CT List, 8260 Aromatics, 8260 Halogens, CT ETPH, 8270 CT List, 8270 PNAs, PCBs, Pesticides, Herbicides

Metals (check all that apply): 13 Priority Poll, 8 RCRA, TOTAL, TCLP, SPLP, Field Filtered, Lab To Filter

Additional Analysis: Pesticides, 8260 SVOP As, SPLP Pb, Total Pb, Total As, RCRA 8 Metals

Sample ID	Date/Time	Matrix	Same Day *	Next Day *	2-3 Days *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs	Pesticides	Herbicides	13 Priority Poll	8 RCRA	TOTAL	TCLP	SPLP	Field Filtered	Lab To Filter	Pesticides	8260 SVOP As	SPLP Pb	Total Pb	Total As	RCRA 8 Metals						TOTAL # OF CONT.	NOTE #
EA-4 (West)	10/8/13 / 1200	S				X																					X							1	
EA-4 (East)	/ 1202	S				X																					X							1	
EA-4 (Bottom)	/ 1205	S				X																					X							1	
AWN-1	/ 1210	S				X																	X					X						1	
AWN-2	/ 1215	S				X																	X					X						1	
EA-5 (North)	/ 1315	S				X																		X	X	X	X							1	
EA-5 (South)	/ 1317	S				X																		X	X	X	X							1	
EA-5 (West)	/ 1320	S				X																		X	X	X	X							1	
EA-5 (~~Bottom~~ East)	/ 1322	S				X																		X	X	X	X							1	
EA-5 (Bottom)	/ 1325	S				X																		X	X	X	X							1	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
[signature]	10/8/13 16:09	[signature]
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES: See Page 1

Client / Reporting Information

Company Name

Address: See Page 1

City State Zip

Report To: E-mail

Phone # Fax #

Project Information

Project Contact: PO #:

Project: See Page 1 Project #:

Location: Collector(s):

QA/QC ☐ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *

Data Report ☐ Email ☐ PDF ☐ Excel ☐ Other

RSR Reporting Limits (check one) ☐ GA ☐ GB ☐ SWP ☐ Other (specify)

Lab Use:
Evidence of Cooling: Temp Upon Receipt 15.3 (Y) °C or N

SHEET 3 OF 4

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day.

REV. 12/11

CET #: 13100215

Volatile Soils Only:

Date and Time in Freezer
Client:
CET:

CHAIN OF CUSTODY RECORD

CET
COMPLETE ENVIRONMENTAL TESTING, INC.

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com
Bottle Request e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking W., C=Cassette, Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, 2-3 Days *, Std (5-7 Days)

Organics: 8260 CT List, 8260 Aromatics, 8260 Halogens, CT ETPH, 8270 CT List, 8270 PNAs, PCBs, Pesticides, Herbicides

Metals (check all that apply): 13 Priority Poll, 8 RCRA, TOTAL, TCLP, SPLP, Field Filtered, Lab To Filter

Additional Analysis: Total As, Total Pb, SPLP As, SPLP Pb

Sample ID	Date/Time	Matrix	Same Day *	Next Day *	2-3 Days *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs	Pesticides	Herbicides	13 Priority Poll	8 RCRA	TOTAL	TCLP	SPLP	Field Filtered	Lab To Filter	Total As	Total Pb	SPLP As	SPLP Pb	TOTAL # OF CONT.	NOTE #
EA-10 (Bottom)	10/8/13 / 1327	S				X																	X	X	X	X	1	
EA-6 (North)	/ 1440																						X		X	NO (ii)	1	
EA-6 (South)	/ 1442																										1	
EA-6 (West)	/ 1445																										1	
EA-6 (East)	/ 1447																										1	
EA-6 (Bottom)	/ 1450																										1	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
[signature]	10/8/13	16:09 [signature]
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES: See Page 1

Client / Reporting Information

Company Name

Address: See Page 1

City State Zip

Report To: E-mail

Phone # Fax #

Project Information

Project Contact: PO #:

Project: See Page 1 Project #:

Location: Collector(s):

QA/QC ☐ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *

Data Report ☐ Email ☐ PDF ☐ Excel ☐ Other

RSR Reporting Limits (check one) ☐ GA ☐ GB ☐ SWP ☐ Other (specify)

Lab Use:
Evidence of Cooling: Temp Upon Receipt 15.3 (Y) °C or N

SHEET 4 OF 4

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day.

REV. 12/11

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Chris Lindahl
TRC Environmental Consultants
21 Griffin Rd., North
Windsor, CT 06095

Analytical Report

CET# 3120164

Report Date: December 12, 2013
Project: Bartlett Arboretum, Stamford
Project Number: C209285

Connecticut Laboratory Certificate: PH 0116
Massachussetts laboratory Certificate.: M-CT903
Rhode Island Certification: 199

New York Certification: 11982
Florida Laboratory Certification: E871064

SAMPLE SUMMARY

The sample(s) were received at 2.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
EA-2 West 4	3120164-01	Soil	12/06/2013 11:25	12/06/2013

Analyte: Total Solids [EPA 160.3 modified]

Analyst: DH

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
3120164-01	EA-2 West 4	**81**	1.0	%	1	B3L1204	12/12/2013	12/12/2013 09:52	

Client Sample ID EA-2 West 4
Lab ID: 3120164-01

Chlorinated Pesticides **Analyst: SJ**

Method: EPA 8081B **Matrix: Soil**

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Alpha-BHC	ND	62	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
Gamma-BHC	ND	15	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
Heptachlor	ND	11	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
Aldrin	ND	31	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
Beta-BHC	ND	31	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
Delta-BHC	ND	62	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
Heptachlor Epoxide	ND	19	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
Endosulfan I	ND	62	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
4,4-DDE	**420**	25	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	E
Dieldrin	ND	6.2	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
Endrin	ND	62	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
4,4-DDD	**82**	37	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
Endosulfan II	ND	62	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
4,4-DDT	**2300**	25	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	E
Endrin Aldehyde	ND	62	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
4,4-Methoxychlor	ND	62	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
Endosulfan Sulfate	ND	62	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
Endrin Ketone	ND	62	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
Chlordane	ND	62	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
Toxaphene	ND	250	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
Alachlor	ND	250	1	EPA 3545A	B3L1120	12/11/2013	12/11/2013 20:14	
Surrogate: TCMX	*90.8 %*	*50 - 150*			B3L1120	12/11/2013	*12/11/2013 20:14*	
Surrogate: DCB	*79.2 %*	*50 - 150*			B3L1120	12/11/2013	*12/11/2013 20:14*	

Client Sample ID EA-2 West 4
Lab ID: 3120164-01RE1

Chlorinated Pesticides
Method: EPA 8081B

Analyst: CA
Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Alpha-BHC	ND	620	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
Gamma-BHC	ND	150	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
Heptachlor	ND	110	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
Aldrin	ND	310	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
Beta-BHC	ND	310	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
Delta-BHC	ND	620	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
Heptachlor Epoxide	ND	190	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
Endosulfan I	ND	620	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
4,4-DDE	**410**	250	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
Dieldrin	ND	62	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
Endrin	ND	620	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
4,4-DDD	ND	370	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
Endosulfan II	ND	620	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
4,4-DDT	**1700**	250	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
Endrin Aldehyde	ND	620	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
4,4-Methoxychlor	ND	620	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
Endosulfan Sulfate	ND	620	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
Endrin Ketone	ND	620	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
Chlordane	ND	620	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
Toxaphene	ND	2500	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
Alachlor	ND	2500	10	EPA 3545A	B3L1120	12/11/2013	12/12/2013 13:06	
Surrogate: TCMX		*50 - 150*			B3L1120	12/11/2013	*12/12/2013 13:06*	+
Surrogate: DCB		*50 - 150*			B3L1120	12/11/2013	*12/12/2013 13:06*	+

QUALITY CONTROL SECTION

Batch B3L1120 - EPA 8081B

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B3L1120-BLK1)					Prepared: 12/11/2013 Analyzed: 12/11/2013				
Alpha-BHC	ND	50							
Gamma-BHC	ND	12							
Heptachlor	ND	9.0							
Aldrin	ND	25							
Beta-BHC	ND	25							
Delta-BHC	ND	50							
Heptachlor Epoxide	ND	15							
Endosulfan I	ND	50							
4,4-DDE	ND	20							
Dieldrin	ND	5.0							
Endrin	ND	50							
4,4-DDD	ND	30							
Endosulfan II	ND	50							
4,4-DDT	ND	20							
Endrin Aldehyde	ND	50							
4,4-Methoxychlor	ND	50							
Endosulfan Sulfate	ND	50							
Endrin Ketone	ND	50							
Chlordane	ND	50							
Toxaphene	ND	200							
Alachlor	ND	200							
Surrogate: TCMX					*101*	*50 - 150*			
Surrogate: DCB					*86.5*	*50 - 150*			
LCS (B3L1120-BS1)					Prepared: 12/11/2013 Analyzed: 12/11/2013				
Alpha-BHC	86.1	50	80.000		108	40 - 140			
Gamma-BHC	84.2	12	80.000		105	40 - 140			
Heptachlor	83.7	9.0	80.000		105	40 - 140			
Aldrin	85.7	25	80.000		107	40 - 140			
Beta-BHC	82.9	25	80.000		104	40 - 140			
Delta-BHC	91.2	50	80.000		114	40 - 140			
Heptachlor Epoxide	81.5	15	80.000		102	40 - 140			
Endosulfan I	84.9	50	80.000		106	40 - 140			
4,4-DDE	82.1	20	80.000		103	40 - 140			
Dieldrin	83.4	5.0	80.000		104	40 - 140			
Endrin	114	50	80.000		**143**	40 - 140			**H**
4,4-DDD	81.2	30	80.000		102	40 - 140			
Endosulfan II	86.3	50	80.000		108	40 - 140			
4,4-DDT	77.6	20	80.000		97.0	40 - 140			
Endrin Aldehyde	46.9	45	80.000		58.6	40 - 140			
4,4-Methoxychlor	77.5	50	80.000		96.9	40 - 140			
Endosulfan Sulfate	75.7	50	80.000		94.7	40 - 140			
Endrin Ketone	66.1	50	80.000		82.6	40 - 140			
Alachlor	697	200	750.000		93.0	40 - 140			
Surrogate: TCMX					*107*	*50 - 150*			
Surrogate: DCB					*96.7*	*50 - 150*			
Calibration Check (B3L1120-CCV1)					Prepared: 12/11/2013 Analyzed: 12/11/2013				
Alpha-BHC	52.8		50.000		106	80 - 120			

CET #:3120164
Project: Bartlett Arboretum, Stamford
Project Number: C209285

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Calibration Check (B3L1120-CCV1) - Continued					Prepared: 12/11/2013 Analyzed: 12/11/2013				
Gamma-BHC	53.9		50.000		108	80 - 120			
Heptachlor	54.2		50.000		108	80 - 120			
Aldrin	54.0		50.000		108	80 - 120			
Beta-BHC	52.1		50.000		104	80 - 120			
Delta-BHC	47.8		50.000		95.6	80 - 120			
Heptachlor Epoxide	54.0		50.000		108	80 - 120			
Endosulfan I	53.8		50.000		108	80 - 120			
4,4-DDE	44.8		50.000		89.6	80 - 120			
Dieldrin	54.6		50.000		109	80 - 120			
Endrin	59.9		50.000		120	80 - 120			
4,4-DDD	59.3		50.000		119	80 - 120			
Endosulfan II	52.1		50.000		104	80 - 120			
4,4-DDT	41.8		50.000		83.6	80 - 120			
Endrin Aldehyde	55.5		50.000		111	80 - 120			
4,4-Methoxychlor	44.6		50.000		89.2	80 - 120			
Endosulfan Sulfate	52.4		50.000		105	80 - 120			
Endrin Ketone	48.8		50.000		97.5	80 - 120			
Alachlor	563		500.000		113	80 - 120			
Surrogate: TCMX					*109*	*50 - 150*			
Surrogate: DCB					*107*	*50 - 150*			

Questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

Report Comments:

ND is None Detected at the specified detection limit
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.
Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogenity may be a problem.
All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.
Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-tarer organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected
RL	Reporting Limit
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte foun in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903
Rhode Island Certification 199

New York Certification 11982
Florida Laboratory Certification E871064

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc.

Client: TRC Environmental Consultants

Project Location: Bartlett Arboretum, Stamford

Project Number: C209285

Laboratory Sample ID(s):

3120164-01

Sample Date(s):

12/06/2013

List RCP Methods Used:

EPA 160.3 modified, EPA 8081B

CET #: 3120164

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☐ Yes ☑ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b	b) Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the mehod-specific analyte lists preented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: **Position:** **Laboratory Director**

Printed Name: **David Ditta** **Date:** **12/12/2013**

Name of Laboratory: **Complete Environmental Testing, Inc.**

This certification form is to be used for RCP methods only.

RCP Case Narrative

1- The number of compounds allowed out of the LCS was exceeded for Pesticides for batch #B3L1120-BS1.

4- See Exceptions Report Below

7- Project specific QC was not requested by the client.

4- Exceptions Report

Analyte	QC Type	Exception	Result	RPD	Recovery (%)	Batch/Sample ID
Endrin	LCS	High			143	B3L1120

CET

COMPLETE ENVIRONMENTAL TESTING, INC.

3120164

CUSTODY RECORD

CET # _____

Volatile Soils Only:

Date and Time in Freezer
Client:
CET:

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com
Bottle Request e-mail: bottleorders@cetlabs.com

Sample ID	Date/Time	Matrix (A=Air, S=Soil, W=Water, DW=Drinking W., C=Cassette, Solid, Wipe, Other (Specify))	Turnaround Time ** (check one): Same Day *	Next Day *	2-3 Days *	Std (5-7 Days)	Organics: 8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs	Pesticides	Herbicides	Metals (check all that apply): 13 Priority Poll	8 RCRA	TOTAL	TCLP	SPLP	Field Filtered	Lab To Filter	Additional Analysis: Pesticides	TOTAL # OF CONT.	NOTE #
EA-2(West4)	12/6/13/ 1125	S				X																	X	1	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B= Sodium Bisulfate W=Water F= Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
[illegible]	12/6/13 13:42	[illegible]
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES:

Client / Reporting Information

Company Name: TRC

Address: 21 Griffin Road North

City: Windsor State: CT Zip: 06095

Report To: Chris Lindahl E-mail: Clindahl@trcsolutions.com

Phone #: 860-298-6267 Fax #: 860-298-6399

Project Information

Project Contact: Chris Lindahl PO #: _____

Project: Bartlett Arboretum Project #: C204285

Location: Stamford, CT Collector(s): [illegible]

QA/QC ☐ Std ☐ Site Specific (MS/MSD) * ☒ RCP Pkg * ☒ DQAW *

Data Report ☒ Email ☒ PDF ☒ Excel ☐ Other

RSR Reporting Limits (check one) ☒ GA ☐ GB ☐ SWP ☐ Other (specify)

Lab Use:
Evidence of Cooling: 2 Y or N
Temp Upon Receipt _____ °C

SHEET 1 OF 1

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day.

REV. 12/11

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Chris Lindahl
TRC Environmental Consultants
21 Griffin Rd., North
Windsor, CT 06095

Analytical Report

CET# 3110397

Report Date: November 26, 2013
Project: Bartlett Arboretum, Stamford

Connecticut Laboratory Certificate: PH 0116
Massachussetts laboratory Certificate.: M-CT903
Rhode Island Certification: 199

New York Certification: 11982
Florida Laboratory Certification: E871064

SAMPLE SUMMARY

The sample(s) were received at 1.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
EA-2 (West 3)	3110397-01	Soil	11/14/2013 11:05	11/14/2013
EA-5 (East 3)	3110397-02	Soil	11/14/2013 11:35	11/14/2013
EA-6 (South 3)	3110397-03	Soil	11/14/2013 12:05	11/14/2013

Analyte: Total Solids [EPA 160.3 modified] **Analyst: CC**

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
3110397-01	EA-2 (West 3)	**88**	1.0	%	1	B3K2004	11/20/2013	11/20/2013 13:10	
3110397-02	EA-5 (East 3)	**81**	1.0	%	1	B3K2004	11/20/2013	11/20/2013 13:10	
3110397-03	EA-6 (South 3)	**89**	1.0	%	1	B3K2004	11/20/2013	11/20/2013 13:10	

Analyte: Total Arsenic [EPA 6010C] **Analyst: GT**

Prep Method: EPA 3050B **Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
3110397-02	EA-5 (East 3)	**14**	1.2	mg/kg dry	1	B3K1808	11/18/2013	11/18/2013 22:55	
3110397-03	EA-6 (South 3)	**2.7**	1.1	mg/kg dry	1	B3K1808	11/18/2013	11/18/2013 23:00	

Client Sample ID EA-2 (West 3)
Lab ID: 3110397-01

Chlorinated Pesticides **Analyst: CA**

Method: EPA 8081B

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Alpha-BHC	ND	57	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
Gamma-BHC	ND	14	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
Heptachlor	ND	10	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
Aldrin	ND	28	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
Beta-BHC	ND	28	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
Delta-BHC	ND	57	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
Heptachlor Epoxide	ND	17	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
Endosulfan I	ND	57	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
4,4-DDE	**1700**	23	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	E
Dieldrin	ND	5.7	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
Endrin	ND	57	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
4,4-DDD	**68**	34	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
Endosulfan II	ND	57	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
4,4-DDT	**4600**	23	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	E
Endrin Aldehyde	ND	57	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
4,4-Methoxychlor	ND	57	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
Endosulfan Sulfate	ND	57	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
Endrin Ketone	ND	57	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
Chlordane	ND	57	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
Toxaphene	ND	230	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
Alachlor	ND	230	1	EPA 3545A	B3K1904	11/19/2013	11/21/2013 13:57	
Surrogate: TCMX	*91.4 %*	*50 - 150*			B3K1904	11/19/2013	*11/21/2013 13:57*	
Surrogate: DCB	*75.6 %*	*50 - 150*			B3K1904	11/19/2013	*11/21/2013 13:57*	

Client Sample ID EA-2 (West 3)
Lab ID: 3110397-01RE1

Chlorinated Pesticides
Method: EPA 8081B

Analyst: CA
Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Alpha-BHC	ND	1400	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
Gamma-BHC	ND	340	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
Heptachlor	ND	260	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
Aldrin	ND	710	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
Beta-BHC	ND	710	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
Delta-BHC	ND	1400	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
Heptachlor Epoxide	ND	430	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
Endosulfan I	ND	1400	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
4,4-DDE	**980**	570	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
Dieldrin	ND	140	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
Endrin	ND	1400	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
4,4-DDD	ND	850	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
Endosulfan II	ND	1400	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
4,4-DDT	**3200**	570	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
Endrin Aldehyde	ND	1400	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
4,4-Methoxychlor	ND	1400	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
Endosulfan Sulfate	ND	1400	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
Endrin Ketone	ND	1400	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
Chlordane	ND	1400	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
Toxaphene	ND	5700	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
Alachlor	ND	5700	25	EPA 3545A	B3K1904	11/19/2013	11/22/2013 16:59	
Surrogate: TCMX		*50 - 150*			B3K1904	11/19/2013	*11/22/2013 16:59*	+
Surrogate: DCB		*50 - 150*			B3K1904	11/19/2013	*11/22/2013 16:59*	+

CET #:3110397

Project: Bartlett Arboretum, Stamford

QUALITY CONTROL SECTION

Batch B3K1808 - EPA 6010C

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B3K1808-BLK1)					Prepared: 11/18/2013 Analyzed: 11/18/2013				
Arsenic	ND	1.0							
LCS (B3K1808-BS1)					Prepared: 11/18/2013 Analyzed: 11/18/2013				
Arsenic	27.1	1.0	25.000		108	80 - 120			

CET #:3110397

Project: Bartlett Arboretum, Stamford

Batch B3K1904 - EPA 8081B

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B3K1904-BLK1)					Prepared: 11/19/2013 Analyzed: 11/21/2013				
Alpha-BHC	ND	50							
Gamma-BHC	ND	12							
Heptachlor	ND	9.0							
Aldrin	ND	25							
Beta-BHC	ND	25							
Delta-BHC	ND	50							
Heptachlor Epoxide	ND	15							
Endosulfan I	ND	50							
4,4-DDE	ND	20							
Dieldrin	ND	5.0							
Endrin	ND	50							
4,4-DDD	ND	30							
Endosulfan II	ND	50							
4,4-DDT	ND	20							
Endrin Aldehyde	ND	50							
4,4-Methoxychlor	ND	50							
Endosulfan Sulfate	ND	50							
Endrin Ketone	ND	50							
Chlordane	ND	50							
Toxaphene	ND	200							
Alachlor	ND	200							
Surrogate: TCMX					*107*	*50 - 150*			
Surrogate: DCB					*90.5*	*50 - 150*			
LCS (B3K1904-BS1)					Prepared: 11/19/2013 Analyzed: 11/21/2013				
Alpha-BHC	69.9	50	80.000		87.4	40 - 140			
Gamma-BHC	69.0	12	80.000		86.3	40 - 140			
Heptachlor	70.1	9.0	80.000		87.6	40 - 140			
Aldrin	69.4	25	80.000		86.7	40 - 140			
Beta-BHC	67.4	25	80.000		84.2	40 - 140			
Delta-BHC	73.6	50	80.000		92.0	40 - 140			
Heptachlor Epoxide	67.6	15	80.000		84.5	40 - 140			
Endosulfan I	70.8	50	80.000		88.5	40 - 140			
4,4-DDE	70.5	20	80.000		88.2	40 - 140			
Dieldrin	70.8	5.0	80.000		88.5	40 - 140			
Endrin	95.7	50	80.000		120	40 - 140			
4,4-DDD	67.0	30	80.000		83.7	40 - 140			
Endosulfan II	72.6	50	80.000		90.7	40 - 140			
4,4-DDT	67.3	20	80.000		84.1	40 - 140			
Endrin Aldehyde	40.6	30	80.000		50.8	40 - 140			
4,4-Methoxychlor	67.5	50	80.000		84.4	40 - 140			
Endosulfan Sulfate	63.5	50	80.000		79.4	40 - 140			
Endrin Ketone	56.6	50	80.000		70.8	40 - 140			
Alachlor	598	200	750.000		79.7	40 - 140			
Surrogate: TCMX					*98.8*	*50 - 150*			
Surrogate: DCB					*87.3*	*50 - 150*			

Questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

Report Comments:

ND is None Detected at the specified detection limit
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.
Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogenity may be a problem.
All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.
Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-tarer organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected
RL	Reporting Limit
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte foun in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903
Rhode Island Certification 199

New York Certification 11982
Florida Laboratory Certification E871064

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc.

Client: TRC Environmental Consultants

Project Location: Bartlett Arboretum, Stamford

Project Number:

Laboratory Sample ID(s):
3110397-01 thru 3110397-03

Sample Date(s):
11/14/2013

List RCP Methods Used:
EPA 160.3 modified, EPA 6010C, EPA 8081B

CET #: 3110397

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b	b) Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the mehod-specific analyte lists preented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: **Position: Laboratory Director**

Printed Name: David Ditta **Date: 11/26/2013**

Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- The client requested a subset of the RCP Metals list.

7- Project specific QC was not requested by the client.

CET #

Volatile Soils Only:

Date and Time in Freezer
Client:
CET:

COMPLETE ENVIRONMENTAL TESTING, INC.

3110397

IF CUSTODY RECORD

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com
Bottle Request e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking W., C=Cassette, Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, 2-3 Days *, Std (5-7 Days)

Organics: 8260 CT List, 8260 Aromatics, 8260 Halogens, CT ETPH, 8270 CT List, 8270 PNAs, PCBs, Pesticides, Herbicides

Metals (check all that apply): 13 Priority Poll, 8 RCRA, TOTAL, TCLP, SPLP, Field Filtered, Lab To Filter

Additional Analysis: Pesticides, Total As

Sample ID	Date/Time	Matrix	Same Day *	Next Day *	2-3 Days *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs	Pesticides	Herbicides	13 Priority Poll	8 RCRA	TOTAL	TCLP	SPLP	Field Filtered	Lab To Filter	Pesticides	Total As	TOTAL # OF CONT.	NOTE #
EA-2 (West3)	11/14/13 / 1105	S				X																	X		1	
~~EA-3~~ (EA-5 (East3)	↓ / 1135	S				X																		X	1	
EA-6 (South3)	↓ / 1205	S				X																		X	1	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B= Sodium Bisulfate W=Water F= Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
[signature]	11/14/13 / 1455	[signature]
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES:

Client / Reporting Information

Company Name: TRC

Address: 21 Griffin Road North

City: Windsor State: CT Zip: 06095

Report To: Chris Lindahl E-mail:

Phone #: 860-298-6267 Fax #: 860-298-6399

Project Information

Project Contact: Chris Lindahl PO #: C209285

Project: Bartlett Arboretum Project #:

Location: Stamford, CT Collector(s): C. Lindahl

QA/QC: ☐ Std ☐ Site Specific (MS/MSD) * ☒ RCP Pkg * ☒ DQAW *

Data Report: ☒ Email ☒ PDF ☒ Excel ☐ Other

RSR Reporting Limits (check one): ☒ GA ☐ GB ☐ SWP ☐ Other (specify)

Lab Use:
Evidence of Cooling: Y or N
Temp Upon Receipt 1.0 °C

SHEET 1 OF 1

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day.

REV. 12/11

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Chris Lindahl
TRC Environmental Consultants
21 Griffin Rd., North
Windsor, CT 06095

Analytical Report

CET # 3100324

Report Date: November 12, 2013
Project: Bartlett Arboretum, Stamford

Connecticut Laboratory Certificate: PH 0116
Massachussetts laboratory Certificate.: M-CT903
Rhode Island Certification: 199

New York Certification: 11982
Florida Laboratory Certification: E871064

SAMPLE SUMMARY

The sample(s) were received at 3.1°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
EA-1 (North2)	3100324-01	Soil	10/29/2013 11:20	10/29/2013
EA-2 (West2)	3100324-02	Soil	10/29/2013 11:50	10/29/2013
EA-2 (South2)	3100324-03	Soil	10/29/2013 11:52	10/29/2013
EA-2 (East2)	3100324-04	Soil	10/29/2013 11:55	10/29/2013
EA-3 (East2)	3100324-05	Soil	10/29/2013 12:25	10/29/2013
EA-3 (South2)	3100324-06	Soil	10/29/2013 12:27	10/29/2013
EA-5 (West2)	3100324-07	Soil	10/29/2013 13:10	10/29/2013
EA-5 (East2)	3100324-08	Soil	10/29/2013 13:12	10/29/2013
EA-6 (South2)	3100324-09	Soil	10/29/2013 14:15	10/29/2013

CET #:3100324
Project: Bartlett Arboretum, Stamford

Analyte: Total Solids [EPA 160.3 modified]

Analyst: cc

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
3100324-01	EA-1 (North2)	**79**	1.0	%	1	B3K0406	11/04/2013	11/04/2013 00:00	
3100324-02	EA-2 (West2)	**87**	1.0	%	1	B3K0406	11/04/2013	11/04/2013 00:00	
3100324-03	EA-2 (South2)	**86**	1.0	%	1	B3K0406	11/04/2013	11/04/2013 00:00	
3100324-04	EA-2 (East2)	**89**	1.0	%	1	B3K0406	11/04/2013	11/04/2013 00:00	
3100324-05	EA-3 (East2)	**87**	1.0	%	1	B3K0415	11/04/2013	11/04/2013 00:00	
3100324-06	EA-3 (South2)	**83**	1.0	%	1	B3K0415	11/04/2013	11/04/2013 00:00	
3100324-08	EA-5 (East2)	**81**	1.0	%	1	B3K0415	11/04/2013	11/04/2013 00:00	
3100324-09	EA-6 (South2)	**84**	1.0	%	1	B3K0415	11/04/2013	11/04/2013 00:00	

Analyte: Total Arsenic [EPA 6010C]

Prep Method: EPA 3050B

Analyst: SS

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
3100324-05	EA-3 (East2)	**2.2**	1.1	mg/kg dry	1	B3J3109	10/31/2013	10/31/2013 17:37	
3100324-06	EA-3 (South2)	**4.8**	1.2	mg/kg dry	1	B3J3109	10/31/2013	10/31/2013 17:42	
3100324-08	EA-5 (East2)	**12**	1.2	mg/kg dry	1	B3J3109	10/31/2013	10/31/2013 17:47	
3100324-09	EA-6 (South2)	**32**	1.2	mg/kg dry	1	B3J3109	10/31/2013	10/31/2013 18:03	

Analyte: SPLP Lead [EPA 6020A]

Analyst: SS

Matrix: Extract

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
3100324-07	EA-5 (West2)	ND	0.013	mg/L	1	B3K0537	11/05/2013	11/05/2013 17:52	

Client Sample ID EA-1 (North2)
Lab ID: 3100324-01

Chlorinated Pesticides
Method: EPA 8081B

Analyst: CA
Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Alpha-BHC	ND	63	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
Gamma-BHC	ND	15	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
Heptachlor	ND	11	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
Aldrin	ND	32	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
Beta-BHC	ND	32	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
Delta-BHC	ND	63	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
Heptachlor Epoxide	ND	19	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
Endosulfan I	ND	63	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
4,4-DDE	**180**	25	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
Dieldrin	ND	6.3	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
Endrin	ND	63	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
4,4-DDD	ND	38	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
Endosulfan II	ND	63	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
4,4-DDT	**320**	25	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
Endrin Aldehyde	ND	63	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
4,4-Methoxychlor	ND	63	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
Endosulfan Sulfate	ND	63	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
Endrin Ketone	ND	63	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
Chlordane	ND	63	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
Toxaphene	ND	250	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
Alachlor	ND	250	1	EPA 3545A	B3K0147	11/01/2013	11/06/2013 12:49	
Surrogate: TCMX	*94.4 %*	*50 - 150*			B3K0147	11/01/2013	*11/06/2013 12:49*	
Surrogate: DCB	*80.7 %*	*50 - 150*			B3K0147	11/01/2013	*11/06/2013 12:49*	

Client Sample ID EA-2 (West2)
Lab ID: 3100324-02

Chlorinated Pesticides
Method: EPA 8081B

Analyst: CA
Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Alpha-BHC	ND	1700	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
Gamma-BHC	ND	410	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
Heptachlor	ND	310	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
Aldrin	ND	860	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
Beta-BHC	ND	860	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
Delta-BHC	ND	1700	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
Heptachlor Epoxide	ND	520	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
Endosulfan I	ND	1700	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
4,4-DDE	**1400**	690	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
Dieldrin	ND	170	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
Endrin	ND	1700	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
4,4-DDD	ND	1000	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
Endosulfan II	ND	1700	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
4,4-DDT	**9000**	690	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
Endrin Aldehyde	ND	1700	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
4,4-Methoxychlor	ND	1700	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
Endosulfan Sulfate	ND	1700	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
Endrin Ketone	ND	1700	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
Chlordane	ND	1700	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
Toxaphene	ND	6900	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
Alachlor	ND	6900	30	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:05	
Surrogate: TCMX		*50 - 150*			B3K0147	11/01/2013	*11/06/2013 13:05*	+
Surrogate: DCB		*50 - 150*			B3K0147	11/01/2013	*11/06/2013 13:05*	+

Client Sample ID EA-2 (South2)
Lab ID: 3100324-03

Chlorinated Pesticides
Method: EPA 8081B

Analyst: CA
Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Alpha-BHC	ND	120	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
Heptachlor	ND	21	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
Aldrin	ND	58	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
Beta-BHC	ND	58	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
Delta-BHC	ND	120	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
Heptachlor Epoxide	ND	35	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
Endosulfan I	ND	120	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
4,4-DDE	**150**	46	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
Dieldrin	ND	12	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
Endrin	ND	120	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
4,4-DDD	ND	70	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
Endosulfan II	ND	120	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
4,4-DDT	**400**	46	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
Endrin Aldehyde	ND	120	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
4,4-Methoxychlor	ND	120	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
Endosulfan Sulfate	ND	120	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
Endrin Ketone	ND	120	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
Chlordane	ND	120	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
Toxaphene	ND	460	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
Alachlor	ND	460	2	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:21	
Surrogate: TCMX	*90.0 %*	*50 - 150*			B3K0147	11/01/2013	*11/06/2013 13:21*	
Surrogate: DCB	*86.9 %*	*50 - 150*			B3K0147	11/01/2013	*11/06/2013 13:21*	

Client Sample ID EA-2 (East2)
Lab ID: 3100324-04

Chlorinated Pesticides
Method: EPA 8081B

Analyst: CA
Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Alpha-BHC	ND	280	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
Gamma-BHC	ND	68	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
Heptachlor	ND	51	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
Aldrin	ND	140	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
Beta-BHC	ND	140	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
Delta-BHC	ND	280	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
Heptachlor Epoxide	ND	85	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
Endosulfan I	ND	280	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
4,4-DDE	**350**	110	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
Dieldrin	ND	28	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
Endrin	ND	280	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
4,4-DDD	ND	170	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
Endosulfan II	ND	280	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
4,4-DDT	**920**	110	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
Endrin Aldehyde	ND	280	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
4,4-Methoxychlor	ND	280	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
Endosulfan Sulfate	ND	280	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
Endrin Ketone	ND	280	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
Chlordane	ND	280	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
Toxaphene	ND	1100	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
Alachlor	ND	1100	5	EPA 3545A	B3K0147	11/01/2013	11/06/2013 13:37	
Surrogate: TCMX	*86.3 %*	*50 - 150*			B3K0147	11/01/2013	*11/06/2013 13:37*	
Surrogate: DCB	*85.8 %*	*50 - 150*			B3K0147	11/01/2013	*11/06/2013 13:37*	

CET #:3100324

Project: Bartlett Arboretum, Stamford

QUALITY CONTROL SECTION

Batch B3J3109 - EPA 6010C

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B3J3109-BLK1)					Prepared: 10/31/2013 Analyzed: 10/31/2013				
Arsenic	ND	1.0							
LCS (B3J3109-BS1)					Prepared: 10/31/2013 Analyzed: 10/31/2013				
Arsenic	25.3	1.0	25.000		101	80 - 120			

CET #:3100324

Project: Bartlett Arboretum, Stamford

Batch B3K0147 - EPA 8081B

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B3K0147-BLK1)					Prepared: 11/1/2013 Analyzed: 11/6/2013				
Alpha-BHC	ND	50							
Gamma-BHC	ND	12							
Heptachlor	ND	9.0							
Aldrin	ND	25							
Beta-BHC	ND	25							
Delta-BHC	ND	50							
Heptachlor Epoxide	ND	15							
Endosulfan I	ND	50							
4,4-DDE	ND	20							
Dieldrin	ND	5.0							
Endrin	ND	50							
4,4-DDD	ND	30							
Endosulfan II	ND	50							
4,4-DDT	ND	20							
Endrin Aldehyde	ND	50							
4,4-Methoxychlor	ND	50							
Endosulfan Sulfate	ND	50							
Endrin Ketone	ND	50							
Chlordane	ND	50							
Toxaphene	ND	200							
Alachlor	ND	200							
Surrogate: TCMX					*97.7*	*50 - 150*			
Surrogate: DCB					*87.8*	*50 - 150*			
LCS (B3K0147-BS1)					Prepared: 11/1/2013 Analyzed: 11/6/2013				
Alpha-BHC	65.5	50	80.000		81.9	40 - 140			
Gamma-BHC	65.4	12	80.000		81.8	40 - 140			
Heptachlor	66.2	9.0	80.000		82.8	40 - 140			
Aldrin	65.2	25	80.000		81.6	40 - 140			
Beta-BHC	63.2	25	80.000		79.0	40 - 140			
Delta-BHC	67.6	50	80.000		84.4	40 - 140			
Heptachlor Epoxide	63.8	15	80.000		79.8	40 - 140			
Endosulfan I	66.6	50	80.000		83.2	40 - 140			
4,4-DDE	65.8	20	80.000		82.3	40 - 140			
Dieldrin	66.1	5.0	80.000		82.7	40 - 140			
Endrin	85.7	50	80.000		107	40 - 140			
4,4-DDD	65.8	30	80.000		82.2	40 - 140			
Endosulfan II	69.9	50	80.000		87.4	40 - 140			
4,4-DDT	64.2	20	80.000		80.2	40 - 140			
Endrin Aldehyde	41.6	7.0	80.000		52.0	40 - 140			
4,4-Methoxychlor	65.5	50	80.000		81.9	40 - 140			
Endosulfan Sulfate	62.4	50	80.000		77.9	40 - 140			
Endrin Ketone	56.5	50	80.000		70.7	40 - 140			
Alachlor	574	200	750.000		76.5	40 - 140			
Surrogate: TCMX					*78.4*	*50 - 150*			
Surrogate: DCB					*79.1*	*50 - 150*			

CET #:3100324

Project: Bartlett Arboretum, Stamford

Batch B3K0537 - EPA 6020A

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B3K0537-BLK1)					Prepared: 11/5/2013 Analyzed: 11/5/2013				
Lead	ND	0.013							
LCS (B3K0537-BS1)					Prepared: 11/5/2013 Analyzed: 11/5/2013				
Lead	0.190	0.013	0.200		95.1	80 - 120			
Duplicate (B3K0537-DUP1)		**Source: 3100324-07**			Prepared: 11/5/2013 Analyzed: 11/5/2013				
Lead	ND	0.013		ND				20	
Matrix Spike (B3K0537-MS1)		**Source: 3100324-07**			Prepared: 11/5/2013 Analyzed: 11/5/2013				
Lead	0.200	0.013	0.200	ND	100	75 - 125			
Matrix Spike Dup (B3K0537-MSD1)		**Source: 3100324-07**			Prepared: 11/5/2013 Analyzed: 11/5/2013				
Lead	0.203	0.013	0.200	ND	101	75 - 125	1.15	20	

Questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

Report Comments:

ND is None Detected at the specified detection limit
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.
Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogenity may be a problem.
All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.
Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-tarer organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected
RL	Reporting Limit
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte foun in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903
Rhode Island Certification 199

New York Certification 11982
Florida Laboratory Certification E871064

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc.

Client: TRC Environmental Consultants

Project Location: Bartlett Arboretum, Stamford

Project Number:

Laboratory Sample ID(s):
3100324-01 thru 3100324-09

Sample Date(s):
10/29/2013

List RCP Methods Used:
EPA 1312, EPA 160.3 modified, EPA 6010C, EPA 6020A, EPA 8081B

CET #: 3100324

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b	b) Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the mehod-specific analyte lists preented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: **Position: Laboratory Director**

Printed Name: David Ditta **Date: 11/12/2013**

Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- The client requested a subset of the RCP metals list.

CET #

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

COMPLETE ENVIRONMENTAL TESTING, INC.

3100324

F CUSTODY RECORD

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com
Bottle Request e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking W., C=Cassette, Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, 2-3 Days *, Std (5-7 Days)

Organics: 8260 CT List, 8260 Aromatics, 8260 Halogens, CT ETPH, 8270 CT List, 8270 PNAs, PCBs, Pesticides, Herbicides

Metals (check all that apply): 13 Priority Poll, 8 RCRA, TOTAL, TCLP, SPLP, Field Filtered, Lab To Filter

Additional Analysis: Pesticides, Total As, SPLP Pb

Sample ID	Date/Time	Matrix	Same Day *	Next Day *	2-3 Days *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs	Pesticides	Herbicides	13 Priority Poll	8 RCRA	TOTAL	TCLP	SPLP	Field Filtered	Lab To Filter	Pesticides	Total As	SPLP Pb	TOTAL # OF CONT.	NOTE #
EA-1(North2)	10/29/13 / 1120	S				X																	X			1	
EA-2(West2)	/ 1150	S				X																	X				
EA-2(South2)	/ 1152	S				X																	X				
EA-2(East2)	/ 1155	S				X																	X				
EA-3(East2)	/ 1225	S				X																		X			
EA-3(South2)	/ 1227	S				X																		X			
EA-5(West2)	/ 1310	S				X																			X		
EA-5(East2)	/ 1312	S				X																		X			
EA-6(South2)	/ 1415	S				X																		X			

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B= Sodium Bisulfate W=Water F= Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
[signature]	10/29/13 15:04	Rank

NOTES:

Client / Reporting Information

Company Name: TRC

Address: 21 Griffin Rd North

City: Windsor State: CT Zip: 06095

Report To: Chris Lindahl E-mail: Clindahl@trcsolutions.com

Phone #: 860-916-9083 Fax #: 860-298-6399

Project Information

Project Contact: Chris Lindahl PO #: Pending

Project: Bartlett Arboretum Project #:

Location: Stamford, CT Collector(s): C. Lindahl

QA/QC: ☐ Std ☐ Site Specific (MS/MSD) * ☒ RCP Pkg * ☒ DQAW *

Data Report: ☒ Email ☒ PDF ☒ Excel ☐ Other

RSR Reporting Limits (check one): ☒ GA ☐ GB ☐ SWP ☐ Other (specify)

Lab Use:
Evidence of Cooling: Temp Upon Receipt 3.1 °C (Y) or N

SHEET 1 OF 1

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day.

REV. 12/11

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc.

Client: TRC Environmental Consultants

Project Location: Burlett Arbotetum, Stamford

Project Number:

Laboratory Sample ID(s): AF45479 – AF45514

Sampling Date(s): 10/7/2013; 10/8/2013

List RCP Methods Used (e.g., 8260, 8270, et cetera):

CET#: 13100215

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	☐Yes ☒No
1A	Were the method specified preservation and holding time requirements met?	☒Yes ☐No
1B	**VPH and EPH Methods only:** Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐Yes ☐ No ☒ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒Yes ☐No
3	Were samples received at an appropriate temperature (<6°C)?	☐Yes ☒ No ☐N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	☐Yes ☒No
5	a) Were reporting limits specified or referenced on the chain-of custody? b) Were these reporting limits met?	☒Yes ☐No ☒Yes ☐No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐Yes ☒No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☒Yes ☐No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: _____ **Position:** Laboratory Director

Printed Name: David Ditta **Date:** 10/24/2013

Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

COMPLETE ENVIRONMENTAL TESTING, INC.

80Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
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e-mail: cet1@cetlabs.com

QA Report

Project: Burtlett Arboretum, Stamford
CET#: 13100215

Blank/LCS Report

QA Type: Total Metals Date Analyzed: 10/10/2013 Batch ID: 88753

Analyte	Blank	LCS%Rec	LCS CL
Arsenic	ND<1.0	102	80-120

All associated samples: AF45491 AF45492 AF45493 AF45494

QA Type: Total Metals Date Analyzed: 10/10/2013 Batch ID: 88754

Analyte	Blank	LCS%Rec	LCS CL
Lead	ND<2.0	106	80-120
Selenium	ND<1.0	106	80-120
Cadmium	ND<0.5	108	80-120
Chromium	ND<2.0	119	80-120
Arsenic	ND<1.0	106	80-120
Barium	ND<2.0	104	80-120
Silver	ND<2.0	118	80-120

All associated samples: AF45495 AF45496 AF45497 AF45498 AF45499 AF45500 AF45501 AF45502 AF45503 AF45504 AF45505 AF45506 AF45507 AF45508 AF45509 AF45510 AF45511 AF45512 AF45513 AF45514

QA Type: EPA 8081B Chlorinated Pesticides Date Analyzed: 10/12/2013 Batch ID: 88768

Analyte	Blank	LCS%Rec	LCS CL
4,4-DDD	ND<30	98	40-140
4,4-DDE	ND<20	97	40-140
4,4-DDT	ND<20	105	40-140
4,4-Methoxychlor	ND<50	103	40-140
Alachlor	ND<200	96	40-140
Aldrin	ND<25	97	40-140
Alpha-BHC	ND<50	94	40-140
Beta-BHC	ND<25	97	40-140
Delta-BHC	ND<50	92	40-140
Dieldrin	ND<5.0	98	40-140
Endosulfan I	ND<50	97	40-140
Endosulfan II	ND<50	105	40-140
Endosulfan Sulfate	ND<50	95	40-140
Endrin	ND<50	128	40-140
Endrin Aldehyde	ND<50	65	40-140

Project: Burtlett Arboretum, Stamford
Cet#: 13100215

QA Type: EPA 8081B Chlorinated Pesticides Date Analyzed: 10/12/2013 Batch ID: 88768

Analyte	Blank	LCS%Rec	LCS CL
Endrin Ketone	ND<50	84	40-140
Gamma-BHC	ND<12	95	40-140
Heptachlor	ND<9.0	94	40-140
Heptachlor Epoxide	ND<15	93	40-140

All associated samples: AF45479 AF45480 AF45481 AF45482 AF45483 AF45484 AF45485 AF45486 AF45487 AF45488 AF45491 AF45492 AF45493 AF45494 AF45495 AF45496 AF45502 AF45503

QA Type: Total Metals Date Analyzed: 10/11/2013 Batch ID: 88771

Analyte	Blank	LCS%Rec	LCS CL
Lead	ND<0.013	98	85-115
Arsenic	ND<0.004	101	85-115

All associated samples: AF45490

QA Type: Total Metals Date Analyzed: 10/11/2013 Batch ID: 88772

Analyte	Blank	LCS%Rec	LCS CL
Lead	ND<0.013	98	85-115
Arsenic	ND<0.004	101	85-115

All associated samples: AF45490

QA Type: SPLP Metals Date Analyzed: 10/11/2013 Batch ID: 88777

Analyte	Blank	LCS%Rec	LCS CL
Lead	ND<0.013	98	80-120
Arsenic	ND<0.009	97	80-120

All associated samples: AF45504 AF45505 AF45506 AF45507 AF45508

QA Type: SPLP Metals Date Analyzed: 10/15/2013 Batch ID: 88807

Analyte	Blank	LCS%Rec	LCS CL
Lead	ND<0.013	98	80-120
Arsenic	ND<0.009	98	80-120

All associated samples: AF45509 AF45510 AF45511 AF45512 AF45513 AF45514

QA Type: Total Metals Date Analyzed: 10/15/2013 Batch ID: 88808

Analyte	Blank	LCS%Rec	LCS CL
Mercury	ND<0.2	101	80-120

All associated samples: AF45502 AF45503

QA Type: EPA 8081B Chlorinated Pesticides Date Analyzed: 10/15/2013 Batch ID: 88821

Analyte	Blank	LCS%Rec	LCS CL
4,4-DDD	ND<0.10	104	40-140
4,4-DDE	ND<0.10	109	40-140
4,4-DDT	ND<0.10	145 H	40-140
4,4-Methoxychlor	ND<0.10	141 H	40-140
Aldrin	ND<0.10	86	40-140
Alpha-BHC	ND<0.10	92	40-140
Beta-BHC	ND<0.10	112	40-140
Delta-BHC	ND<0.10	107	40-140
Dieldrin	ND<0.002	107	40-140
Endosulfan I	ND<0.10	108	40-140
Endosulfan II	ND<0.10	127	40-140
Endosulfan Sulfate	ND<0.10	101	40-140
Endrin	ND<0.10	135	40-140
Endrin Aldehyde	ND<0.10	73	40-140

Project: Burtlett Arboretum, Stamford
Cet#: 13100215

QA Type: EPA 8081B Chlorinated Pesticides Date Analyzed: 10/15/2013 Batch ID: 88821

Analyte	Blank	LCS%Rec	LCS CL
Endrin Ketone	ND<0.10	106	40-140
Gamma-BHC	ND<0.10	96	40-140
Heptachlor	ND<0.10	95	40-140
Heptachlor Epoxide	ND<0.10	100	40-140

All associated samples: AF45489 AF45490

QA Type: EPA 8081B Chlorinated Pesticides Date Analyzed: 10/15/2013 Batch ID: 88822

Analyte	Blank	LCS%Rec	LCS CL
Chlordane	ND<0.20	102	

All associated samples: AF45489 AF45490

Project: Burtlett Arboretum, Stamford
Cet#: 13100215

Matrix Spike Report

QA Type: Total Metals Date Analyzed: 10/10/2013 Sample ID: AF45495 Client ID: EA-3 Bottom

Analyte	SampRes	Amt	MS%R	MSD%R	MS CL	RPD	RPD CL
Lead	28	33.8	83	83	75-125	0.72	35
Selenium	4.8	67.6	90	87	75-125	3.30	35
Cadmium	ND<1.0	33.8	90	87	75-125	3.30	35
Chromium	29	33.8	90	83	75-125	8.20	35
Arsenic	7.6	33.8	88	87	75-125	1.70	35
Barium	57	33.8	85	89	75-125	4.50	35
Silver	ND<3.0	6.76	103	98	75-125	5.20	35

QA Type: EPA 8081B Chlorinated Pesticides Date Analyzed: 10/12/2013 Sample ID: AF45503 Client ID: Lawn-2

Analyte	SampRes	Amt	MS%R	MSD%R	MS CL	RPD	RPD CL
4,4-DDD	ND<35	92.0	82	109	50-150	29.00	30
4,4-DDE	ND<23	92.0	79	109	50-150	32.00 H	30
4,4-DDT	ND<23	92.0	75	104	50-150	32.00 H	30
4,4-Methoxychlor	ND<58	92.0	75	104	50-150	32.00 H	30
Alachlor	ND<200	862	9	104	50-150	170.00	30
Aldrin	ND<29	92.0	76	103	50-150	30.00	30
Alpha-BHC	ND<58	92.0	74	101	50-150	31.00 H	30
Beta-BHC	ND<58	92.0	79	103	50-150	26.00	30
Delta-BHC	ND<58	92.0	76	104	50-150	31.00 H	30
Dieldrin	ND<5.0	92.0	78	107	50-150	31.00 H	30
Endosulfan I	ND<58	92.0	80	105	50-150	27.00	30
Endosulfan II	ND<58	92.0	83	109	50-150	28.00	30
Endosulfan Sulfate	ND<58	92.0	74	100	50-150	30.00	30
Endrin	ND<58	92.0	104	141	50-150	30.00	30
Endrin Aldehyde	ND<58	92.0	4 L	4 L	50-150	0.00	30
Endrin Ketone	ND<58	92.0	66	90	50-150	31.00 H	30
Gamma-BHC	ND<23	92.0	75	102	50-150	30.00	30
Heptachlor	ND<10	92.0	76	104	50-150	31.00 H	30
Heptachlor Epoxide	ND<14	92.0	76	101	50-150	28.00	30

QA Type: SPLP Metals Date Analyzed: 10/15/2013 Sample ID: AF45509 Client ID: EA-10 Bottom

Analyte	SampRes	Amt	MS%R	MSD%R	MS CL	RPD	RPD CL
Lead	ND<0.013	0.20	100	100	75-125	0.00	20
Arsenic	ND<0.009	0.20	99	98	75-125	1.00	20

ND is not detected

QC Batch Report

Total Metals Batch 88753

CET ID	Client Sample ID	Matrix	Collection Date
AF45491	EA-3 North	Soil	10/8/2013
AF45492	EA-3 South	Soil	10/8/2013
AF45493	EA-3 West	Soil	10/8/2013
AF45494	EA-3 East	Soil	10/8/2013

Total Metals Batch 88754

CET ID	Client Sample ID	Matrix	Collection Date
AF45495	EA-3 Bottom	Soil	10/8/2013
AF45496	EA-8 Bottom	Soil	10/8/2013
AF45497	EA-4 North	Soil	10/8/2013
AF45498	EA-4 South	Soil	10/8/2013
AF45499	EA-4 West	Soil	10/8/2013
AF45500	EA-4 East	Soil	10/8/2013
AF45501	EA-4 Bottom	Soil	10/8/2013
AF45502	Lawn-1	Soil	10/8/2013
AF45503	Lawn-2	Soil	10/8/2013
AF45504	EA-5 North	Soil	10/8/2013
AF45505	EA-5 South	Soil	10/8/2013
AF45506	EA-5 West	Soil	10/8/2013
AF45507	EA-5 East	Soil	10/8/2013
AF45508	EA-5 Bottom	Soil	10/8/2013
AF45509	EA-10 Bottom	Soil	10/8/2013
AF45510	EA-6 North	Soil	10/8/2013
AF45511	EA-6 South	Soil	10/8/2013
AF45512	EA-6 West	Soil	10/8/2013
AF45513	EA-6 East	Soil	10/8/2013
AF45514	EA-6 Bottom	Soil	10/8/2013

EPA 8081B Chlorinated Pesticides Batch 88768

CET ID	Client Sample ID	Matrix	Collection Date
AF45479	EA-1 North	Soil	10/7/2013
AF45480	EA-1 South	Soil	10/7/2013
AF45481	EA-1 West	Soil	10/7/2013
AF45482	EA-1 East	Soil	10/7/2013
AF45483	EA-1 Bottom	Soil	10/7/2013
AF45484	EA-2 North	Soil	10/7/2013
AF45485	EA-2 South	Soil	10/7/2013
AF45486	EA-2 West	Soil	10/7/2013
AF45487	EA-2 East	Soil	10/7/2013
AF45488	EA-2 Bottom	Soil	10/7/2013
AF45491	EA-3 North	Soil	10/8/2013
AF45492	EA-3 South	Soil	10/8/2013
AF45493	EA-3 West	Soil	10/8/2013
AF45494	EA-3 East	Soil	10/8/2013
AF45495	EA-3 Bottom	Soil	10/8/2013
AF45496	EA-8 Bottom	Soil	10/8/2013
AF45502	Lawn-1	Soil	10/8/2013
AF45503	Lawn-2	Soil	10/8/2013

Total Metals Batch 88771

CET ID	Client Sample ID	Matrix	Collection Date
AF45490	FB100813	Water	10/8/2013

Total Metals Batch 88772

CET ID	Client Sample ID	Matrix	Collection Date
AF45490	FB100813	Water	10/8/2013

SPLP Metals Batch 88777

CET ID	Client Sample ID	Matrix	Collection Date
AF45504	EA-5 North	Soil	10/8/2013
AF45505	EA-5 South	Soil	10/8/2013
AF45506	EA-5 West	Soil	10/8/2013
AF45507	EA-5 East	Soil	10/8/2013
AF45508	EA-5 Bottom	Soil	10/8/2013

SPLP Metals Batch 88807

CET ID	Client Sample ID	Matrix	Collection Date
AF45509	EA-10 Bottom	Soil	10/8/2013
AF45510	EA-6 North	Soil	10/8/2013
AF45511	EA-6 South	Soil	10/8/2013
AF45512	EA-6 West	Soil	10/8/2013
AF45513	EA-6 East	Soil	10/8/2013
AF45514	EA-6 Bottom	Soil	10/8/2013

Total Metals Batch 88808

CET ID	Client Sample ID	Matrix	Collection Date
AF45502	Lawn-1	Soil	10/8/2013
AF45503	Lawn-2	Soil	10/8/2013

EPA 8081B Chlorinated Pesticides Batch 88821

CET ID	Client Sample ID	Matrix	Collection Date
AF45489	FB100713	Water	10/7/2013
AF45490	FB100813	Water	10/8/2013

EPA 8081B Chlorinated Pesticides Batch 88822

CET ID	Client Sample ID	Matrix	Collection Date
AF45489	FB100713	Water	10/7/2013
AF45490	FB100813	Water	10/8/2013

Narrative

1. The number of compounds allowed out of the LCS was exceeded for Pesticides for batch # 88821.

3. The samples were not received at appropriate temperature the temperature was 15.3 degrees and there was evidence of cooling.

4. 4,4-DDT LCS recovery high (145%) for batch 88821.
   4,4-Methoxychlor LCS recovery high (141%) for batch 88821.
   4,4-DDE matrix spike RPD high (32.00%) for sample AF45503.
   4,4-DDT matrix spike RPD high (32.00%) for sample AF45503.
   4,4-Methoxychlor matrix spike RPD high (32.00%) for sample AF45503.
   Alpha-BHC matrix spike RPD high (31.00%) for sample AF45503.
   Delta-BHC matrix spike RPD high (31.00%) for sample AF45503.
   Dieldrin matrix spike RPD high (31.00%) for sample AF45503.
   Endrin Aldehyde matrix spike recovery low (4%) for sample AF45503.
   Endrin Aldehyde matrix spike dup recovery low (4%) for sample AF45503.
   Endrin Ketone matrix spike RPD high (31.00%) for sample AF45503.
   Heptachlor matrix spike RPD high (31.00%) for sample AF45503.

6. The client has requested a subset of the RCP Metals list.

COMPLETE ENVIRONMENTAL TESTING, INC.

80 Lupes Drive
Stratford, CT 06615

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Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Std. (IS)	An analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Rec.(Surr Rec)	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period. Samples are of the same matrix.
ND	Not detected.
Dilution	Multiplier applied to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Samp. Res.	Amount of analyte found in a sample.
Spk. Amt. (Amt)	Amount of analyte added to a sample.
Spk. Res.	Amount of analyte found including amount that was spiked.
Spk. Dup. Res.	Amount of analyte found in duplicate spikes including amount that was spiked.
MS%R	% recovery of spiked amount in sample.
MSD%R	% recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between MS and MSD
Blank	Method blank that has been taken through all steps of the analysis.
LCS % Rec.	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Control Limits	A range within which specified measurement results must fall to be compliant.
LCS CL	Control limits for Laboratory Control Sample.
MS CL	Control limits for matrix spike and matrix spike dup.
RPD CL	Control limits for RPD.
Cont. Cal. (CC)	Continuing Calibration

Flags:

H-	Recovery is above control limits
L-	Recovery is below control limits
B-	Compound detected in the Blank
P-	RPD of dual column results exceeds 40%
#-	Sample result too high for accurate spike recovery

Connecticut Laboratory Certification PH 0116
Massachusetts Laboratory Certification M-CT903
Rhode Island Certification 199

New York Certification 11982
Florida Laboratory Certification E871064

APPENDIX C

95 % UCL CALCULATION

TABLE C-1: AOC-1 Statistics Data Set - Total Arsenic

Sample ID	Sampled Collected	Units	Concentration
SB-1(0-2)	Phase II	mg/Kg	4.1
SB-1(4-5)	Phase II	mg/Kg	ND<1.5
SB-2(0-2)	Phase II	mg/Kg	2.3
SB-2(4-6)	Phase II	mg/Kg	ND<1.5
SB-3(0-2)	Phase II	mg/Kg	9.2
SB-3(2-4)	Phase II	mg/Kg	1.5
SB-4(0-2)	Phase II	mg/Kg	6.9
SB-4(10-11)	Phase II	mg/Kg	ND<1.5
SB-5(4-6)	Phase II	mg/Kg	2.8
SB-6(4-6)	Phase II	mg/Kg	2.9
SB-7(0-2)	Phase II	mg/Kg	6.2
SB-8(0-2)	Phase II	mg/Kg	8.3
SB-8(4-6)	Phase II	mg/Kg	2.6
SB-9(0-2)	Phase II	mg/Kg	4.9
EA-3 North	Remediation	mg/Kg	7.2
EA-3 South2	Remediation	mg/Kg	4.8
EA-3 West	Remediation	mg/Kg	6.4
EA-3 East2	Remediation	mg/Kg	2.2
EA-4 North	Remediation	mg/Kg	4.5
EA-4 South	Remediation	mg/Kg	4.7
EA-4 West	Remediation	mg/Kg	5.3
EA-4 East	Remediation	mg/Kg	6.1
EA-4 Bottom	Remediation	mg/Kg	3.8
EA-5 North	Remediation	mg/Kg	6.3
EA-5 South	Remediation	mg/Kg	5.7
EA-5 East3	Remediation	mg/Kg	14
EA-10 Bottom	Remediation	mg/Kg	4.6
Lawn-1	2013 Investigation	mg/Kg	3.8
Lawn-2	2013 Investigation	mg/Kg	3

	A	B	C	D	E	F	G	H	I	J	K	L
1				**General UCL Statistics for Full Data Sets**								
2			**User Selected Options**									
3			From File	WorkSheet.wst								
4			Full Precision	OFF								
5			Confidence Coefficient	95%								
6			Number of Bootstrap Operations	2000								
7												
8												
9	**Result**											
10												
11						**General Statistics**						
12						Number of Valid Observations	29				Number of Distinct Observations	25
13												
14						**Raw Statistics**					**Log-transformed Statistics**	
15						Minimum	1.5				Minimum of Log Data	0.405
16						Maximum	14				Maximum of Log Data	2.639
17						Mean	4.779				Mean of log Data	1.408
18						Geometric Mean	4.087				SD of log Data	0.585
19						Median	4.6					
20						SD	2.744					
21						Std. Error of Mean	0.51					
22						Coefficient of Variation	0.574					
23						Skewness	1.384					
24												
25						**Relevant UCL Statistics**						
26						**Normal Distribution Test**					**Lognormal Distribution Test**	
27						Shapiro Wilk Test Statistic	0.897				Shapiro Wilk Test Statistic	0.955
28						Shapiro Wilk Critical Value	0.926				Shapiro Wilk Critical Value	0.926
29						**Data not Normal at 5% Significance Level**					**Data appear Lognormal at 5% Significance Level**	
30												
31						**Assuming Normal Distribution**					**Assuming Lognormal Distribution**	
32						95% Student's-t UCL	5.646				95% H-UCL	6.062
33						**95% UCLs (Adjusted for Skewness)**					95% Chebyshev (MVUE) UCL	7.229
34						95% Adjusted-CLT UCL (Chen-1995)	5.757				97.5% Chebyshev (MVUE) UCL	8.273
35						95% Modified-t UCL (Johnson-1978)	5.668				99% Chebyshev (MVUE) UCL	10.32
36												
37						**Gamma Distribution Test**					**Data Distribution**	
38						k star (bias corrected)	3.029				**Data appear Gamma Distributed at 5% Significance Level**	
39						Theta Star	1.578					
40						MLE of Mean	4.779					
41						MLE of Standard Deviation	2.746					
42						nu star	175.7					
43						Approximate Chi Square Value (.05)	146				**Nonparametric Statistics**	
44						Adjusted Level of Significance	0.0407				95% CLT UCL	5.617
45						Adjusted Chi Square Value	144.4				95% Jackknife UCL	5.646
46											95% Standard Bootstrap UCL	5.595
47						Anderson-Darling Test Statistic	0.287				95% Bootstrap-t UCL	5.811
48						Anderson-Darling 5% Critical Value	0.752				95% Hall's Bootstrap UCL	5.991
49						Kolmogorov-Smirnov Test Statistic	0.0816				95% Percentile Bootstrap UCL	5.645
50						Kolmogorov-Smirnov 5% Critical Value	0.164				95% BCA Bootstrap UCL	5.693
51						**Data appear Gamma Distributed at 5% Significance Level**					95% Chebyshev(Mean, Sd) UCL	7
52											97.5% Chebyshev(Mean, Sd) UCL	7.961
53						**Assuming Gamma Distribution**					99% Chebyshev(Mean, Sd) UCL	9.849
54						95% Approximate Gamma UCL (Use when n >= 40)	5.75					
55						95% Adjusted Gamma UCL (Use when n < 40)	5.814					
56												
57						**Potential UCL to Use**					Use 95% Approximate Gamma UCL	5.75
58												
59	**Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.**											
60	**These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)**											
61	**and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.**											
62												

APPENDIX D

SOIL DISPOSAL DOCUMENTATION

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CTCESQ0000000
2. Page 1 of: 1
3. Emergency Response Phone: 1 800 488-7746
4. Waste Tracking Number: NHWM130926-02

5. Generator's Name and Mailing Address
CITY OF STAMFORD ENGINEERING BUREAU
888 WASHINGTON BOULEVARD
STAMFORD CT 06901
Generator's Phone: 203 977-4883

Generator's Site Address (if different than mailing address)
CITY OF STAMFORD
151 BROOKDALE ROAD
STAMFORD CT 06901

6. Transporter 1 Company Name: ENVIRONMENTAL SERVICES, INC.
U.S. EPA ID Number: CTD018811802

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
ONTARIO COUNTY LANDFILL
1879 ROUTE 5 & 20
STANLEY NY 14561
Facility's Phone: 585 526-5459
U.S. EPA ID Number: NYR000149809

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1	NON-RCRA, NON-DOT REGULATED SOLID MATERIAL.	001	CM	30	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1)PROFILE #4723 TOP SOIL WITH TRACE PESTICIDES
ESI JOB # 2013-0926
ESI PO#
067

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Richard Zaremba
Signature:
Month 1 Day 17 Year 14

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ishell Smith
Signature:
Month 1 Day 17 Year 14
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name:
Signature:
Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CTCES0000000	1	1 800 498-7745	NHWM130025-01

5. Generator's Name and Mailing Address
CITY OF STAMFORD ENGINEERING BUREAU
888 WASHINGTON BOULEVARD
STAMFORD CT 06901
Generator's Phone: 203 977-4883

Generator's Site Address (if different than mailing address)
CITY OF STAMFORD
151 BROOKDALE ROAD
STAMFORD CT 06901

6. Transporter 1 Company Name
ENVIRONMENTAL SERVICES, INC.
U.S. EPA ID Number: CTD018811802

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
ONTARIO COUNTY LANDFILL
1879 ROUTE 5 & 20
STANLEY NY 14561
Facility's Phone: 585 526-5468
U.S. EPA ID Number: NYR000149609

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-RCRA, NON-DOT REGULATED SOLID MATERIAL.	001	CM	20,000	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1)PROFILE #4723 TOP SOIL WITH TRACE PESTICIDES
ESI JOB # 2013-0025
ESI PO#

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name | Signature | Month | Day | Year
Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name | Signature | Month | Day | Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CTCES0999999
2. Page 1 of: 1
3. Emergency Response Phone: 1 800 486-7746
4. Waste Tracking Number: NHWM130925-03

5. Generator's Name and Mailing Address
CITY OF STAMFORD ENGINEERING BUREAU
888 WASHINGTON BOULEVARD
STAMFORD CT 06901
Generator's Phone: 203 977-4883

Generator's Site Address (if different than mailing address)
CITY OF STAMFORD
151 BROOKDALE ROAD
STAMFORD CT 06901

6. Transporter 1 Company Name: ENVIRONMENTAL SERVICES, INC.
U.S. EPA ID Number: CTD018811802

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
ONTARIO COUNTY LANDFILL
1879 ROUTE 5 & 20
STANLEY NY 14561
Facility's Phone: 585 526-5459
U.S. EPA ID Number: NYR000148600

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-RCRA, NON-DOT REGULATED SOLID MATERIAL.	001	CM	Est 30,000	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1)PROFILE #4723 TOP SOIL WITH TRACE PESTICIDES
ESI JOB # 2013-0925
ESI PO#

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] | Signature: | Month 1 | Day 17 | Year 14

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Austin Carpenter | Signature: | Month 1 | Day 17 | Year 14
Transporter 2 Printed/Typed Name: | Signature: | Month | Day | Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name | Signature | Month | Day | Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CTCES0G8888	1	1 800 486-7745	NHWM130825-05

5. Generator's Name and Mailing Address
CITY OF STAMFORD ENGINEERING BUREAU
888 WASHINGTON BOULEVARD
STAMFORD CT 06901
Generator's Phone: 203 977-4883

Generator's Site Address (if different than mailing address)
CITY OF STAMFORD
151 BROOKDALE ROAD
STAMFORD CT 06901

6. Transporter 1 Company Name
ENVIRONMENTAL SERVICES, INC.
U.S. EPA ID Number: CTD018811802

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
ONTARIO COUNTY LANDFILL
1879 ROUTE 5 & 20
STANLEY NY 14561
Facility's Phone: 585 526-5452
U.S. EPA ID Number: NYR000140809

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-RCRA, NON-DOT REGULATED SOLID MATERIAL	001	CM	[illegible]	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1)PROFILE # 4723 TOP SOIL WITH TRACE PESTICIDES
ESI JOB # 2013-0825
ESI PO#

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name | Signature | Month | Day | Year
Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name | Signature | Month | Day | Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CTCES0000000
2. Page 1 of: 1
3. Emergency Response Phone: 1 800 468-7746
4. Waste Tracking Number: NHWM130925-04

5. Generator's Name and Mailing Address
CITY OF STAMFORD ENGINEERING BUREAU
888 WASHINGTON BOULEVARD
STAMFORD CT 06901
Generator's Phone: 203 977-4883

Generator's Site Address (if different than mailing address)
CITY OF STAMFORD
161 BROOKDALE ROAD
STAMFORD CT 06901

6. Transporter 1 Company Name: ENVIRONMENTAL SERVICES, INC
U.S. EPA ID Number: CTD018911802

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
ONTARIO COUNTY LANDFILL
1879 ROUTE 5 & 20
STANLEY NY 14561
Facility's Phone: 585 526-5456
U.S. EPA ID Number: NYRD001409609

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1	NON RCRA, NON-DOT REGULATED SOLID MATERIAL.	001	CM	Est. 3000	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1)PROFILE # 4723 TOP SOIL WITH TRACE PESTICIDES
ESI JOB # 2013-0925
ESI PO#

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Richard Zarkowski
Signature:
Month 1 Day 22 Year 14

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Aaron Carpenter
Signature:
Month 01 Day 22 Year 14

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

GENERATOR'S/SHIPPER'S INITIAL COPY